

Weston Solutions, Inc. East Division 3 Riverside Drive Andover, Massachusetts 01810 978-552-2100 - Fax 978-658-0700

SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM EPA CONTRACT EP-W-05-042

> 21 August 2013 20114-081-998-0850-49 DC No. A-6844

Ms. Martha Bosworth U.S. EPA Region I - New England Emergency Planning & Response Branch 5 Post Office Square, Suite 100 Mail Code OSRR07-2 Boston, Massachusetts 02109-3912

Subject:

Case No. 43392; SDG No. A4B24

ChemTech Consulting Group (Chem)

Jard Company Inc Bennington, Vermont

AROCLOR: 19/Soil/A4B24-A4B29, A4B33, A4B35, A4B17-A4B23, A4B30-

A4B32, A4B34

(Field Duplicates A4B25/A4B26)

5/Aqueous Equipment Blanks/A4B02, A4B05, A4B06, A4B08,

2/Soil PEs/A4B56, A4B57

CERCLIS No. VTD048141741

TDD No. 12-10-0008, Task No. 0850-49

Dear Ms. Bosworth:

A Tier II validation was performed on the organic analytical data for 19 soil samples and five aqueous equipment (rinsate) blanks collected by WESTON START at the Jard Company Inc site in Bennington, Vermont, and for two PE samples obtained from EPA Region I. Italicized sample ID numbers in the list above are associated with samples in this SDG, but reported in another SDG. The samples were analyzed under CLP following SOW SOM01.2 as low/medium level for Aroclor compounds. The data were evaluated as Tier II level in accordance with the "Region I EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses" dated December 1996, and the USEPA CLP National Functional Guidelines for Superfund Organic Methods, and were based on the following parameters:

- Overall Evaluation of Data and Potential Usability Issues.
- Data Completeness.
- Preservation and Technical Holding Times.
- GC/MS and GC/ECD Instrument Performance Checks.
- IC and CC.
- Blanks.
 - Surrogate Compounds.
- NA IS.
- MS/MSD.

- * Field Duplicates.
- NA Sensitivity Check (MDL Study or LFB).
- * PE Samples/Accuracy Check.
 - Target Compound Identification.
- * Sample Quantitation and Reported Quantitation Limits.
- NA TICs.
- * SVOC and PEST/PCB Cleanup.
- * System Performance.
- NA SEDD/ADR.
- * = No qualifications will be applied based on this parameter.

Table I summarizes overall evaluation of the data with reference to the DQO and potential usability issues. Qualified data are summarized in Data Summary Table 1.

Overall Evaluation of Data and Potential Usability Issues

See Table I for overall evaluation of data and potential usability issues.

Preservation and Technical Holding Times

Aroclor samples A4B17-A4B18, A4B23-A4B29, and A4B30-A4B34 were extracted between 2 and 4 days beyond the holding time specified in SOM01.2. Based upon the holding times articulated in SW-846, the Chlorinated Biphenyl Congener Statement of Work CBC01.2, and in consultation with USEPA Region I Quality Assurance chemists, the holding time for Aroclors has been established as up to 1 year. The positive and non-detected Aroclor results will not be qualified.

Surrogate Compounds

AROCLORS:

Samples in which two or more Aroclor surrogate recoveries did not meet criteria are summarized in the following table:

Sample No.	No. of Surrogates Out	Action Pos/ND
A4B17	4	Accept
A4B17DL	4	Accept
A4B18	4	Accept
A4B18DL	4	Accept
A4B21	4	Accept
A4B21DL	4	Accept

Sample No.	No. of Surrogates Out	Action Pos/ND
A4B22	1	None

Sample results will be qualified as indicated above.

PE Samples/Accuracy Check

The criteria used by START for qualification of sample data based on the PE sample results are as follows:

	A	ction
PE Score	Non-Detects	Positive Results
In Window	Accept	Accept
Warning Low/High	Accept	Accept
Action Low	Reject (R)	Estimate (J)
Action High	Accept	Estimate (J)
TCL Misses	Reject (R)	Varies
TCL Contaminants	Accept	Varies
TIC Misses	Varies	Varies
TIC Contaminants	Varies	Varies

All non-compliant PE scores were investigated by checking raw data, calculations, calibrations, possible matrix interferences, and blank contamination. Unless otherwise noted, all results reported by the laboratory were found to be correct, based on the data generated by the laboratory.

The laboratory properly identified and quantified the soil Aroclor-1242 PE sample (A4B56, PE No. ASX0184). No qualifications were applied.

The laboratory properly identified and quantified the soil Aroclor-1260 PE sample (A4B57, PE No. AS1507). No qualifications were applied.

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Target Compound Identification

The dual column correlation did not meet %D confirmation criteria for the following Aroclor compounds:

Sample	Compound	% D	Action
A4B27	Aroclor-1242	72.7	Ј
A4B23	Aroclor-1242	26.7	J
A4B34	Aroclor-1242	46.4	J J

Actions:

J = Estimate results when D > 25 but < 100 for pesticides or D > 25 but < 500 for PCBs.

R = Reject results when %D >100 for pesticides or %D >500 for PCBs.

U = Qualify result as undetected at the CRQL when %D >100 for pesticides or %D >500 for PCBs, and both results are less than the CRQL.

Sample results have been qualified as indicated above.

Please contact the undersigned at (978) 552-2100 if you have any questions or need further information.

Very truly yours,

WESTON SOLUTIONS, INC. Region I START

William W. Mahany Principal Project Scientist

Lead Chemist

email cc:

Jennifer Feranda (CLP PO - Region II) - DV Letter w/Data Tables, and ORDA Form only -

Feranda.jennifer@epa.gov

Attachments:

Table I: Overall Evaluation of Soil Data

Data Summary Key Acronym List

Data Summary Table 1

DV Worksheets

PE Sample Score Reports (included in DV worksheets)

Field Sampling Notes (including a copy of sampler's COC Records)

CSF Audit (DC-2 Form) - Evidence Audit Photocopy (Including CSF Receipt/Transfer Form)

DQO Summary Form

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TABLE I

JARD COMPANY INC Case No. 43392; SDG No. A4B24

Overall Evaluation of Soil Data

			AROCLORs		
DQO (list all DQOs)	Sampling and/or Analytical Method Appropriate Yes or No	Measurer Analytical Error	nent Error Sampling Error*	Sampling Variability**	Potential Usability Issues
		F			1
1. To obtain sufficient data from surface and subsurface soil samples collected at the Jard Company site for PCB (Aroclor) analysis, to document potential source areas located on and off the property, and to document contamination in the soil and sediment associated with source areas located on the property.	Analytical Method: Yes, SOM01.2 Sampling Method: Yes, Hand Augers, and Stainless Steel Scoops.	Refer to qualifications in attached Data Summary Table 1.	Refer to qualifications in attached Data Summary Table 1.		1. Positive Aroclor 1242 results in samples A4B23, A4B27, and A4B34 were estimated (J) due to poor dual-column correlation.

^{*} The evaluation of "sampling error" cannot be completely assessed in data validation.

** Sampling variability is not assessed in data validation.

DATA SUMMARY KEY ORGANIC DATA VALIDATION

J The associated numerical value is an estimated quantity. R The data are unusable (compound may or may not be present). Resampling and reanalysis are necessary for verification. The R replaces the numerical value or SQL. IJ The compound was analyzed for, but not detected. The associated numerical value is the SOL or the adjusted SOL. UJ The compound was analyzed for, but not detected. The associated numerical value is the estimated SQL. EB The compound was identified in an aqueous EB that was used to assess field contamination associated with soil/sediment samples. TB The compound was identified in an aqueous TB that was used to assess field contamination associated with soil/sediment samples. BB The compound was identified in an aqueous BB that was used to assess field contamination associated with soil/sediment samples.

ACRONYM LIST ORGANIC DATA VALIDATION

AQ	aqueous	SQL
AQ FB	aqueous field blank	S/S
BB	Bottle Blank	S/S (m)
B/N	base/neutral compound	START
$^{\circ}C$	degrees Celsius	SIZHCI
CC		SVOC
CCV	Continuing Calibration	
CCV	Continuing Calibration Verification	SW
CLD		TB
CLP	Contract Laboratory Program	TCL
COC	Chain-of-Custody record	TDD
COR	Contracting Officer Representative	TIC
CRQL	Contract Required Quantitation	TR
	Limit	VOC
CSF	Complete SDG File	WESTON
%D	percent difference	
DAS	Delivery of Analytical Services	
DMC	Deuterated Monitoring Compound	
DQO	Data Quality Objective	
$^{\circ}\mathrm{DV}$	Data Validation	
DW	drinking water	
EB	Equipment Blank	
EPA	Environmental Protection Agency	
GC/ECD	Gas Chromatograph/Electron	
	Capture Detector	
GC/MS	Gas Chromatograph/Mass	
	Spectrometry	
GW	groundwater	
IC	Initial Calibration	
IS	Internal Standard	
kg	kilogram	
L L	liter	
LCS	Laboratory Control Sample	
		•
LFB	Laboratory Fortified Blank Method Detection Limit	
MDL		
μg	microgram	
MS	Matrix Spike	
MSD	Matrix Spike Duplicate	
NA	Not Applicable	
ND	non-detected result	
ng	nanogram	
NERL	New England Regional Laboratory	
OSC	On-Scene Coordinator	
ORDA	Organic Regional Data	
	Assessment	
PAH	polynuclear aromatic hydrocarbon	
PCB	polychlorinated biphenyl	
	compound	
PEST/PCB	pesticide/polychlorinated biphenyl	
	compound	
PE	Performance Evaluation	
Pos	positive result	
QC	Quality Control	
%R	percent recovery	
RPD	Relative Percent Difference	
RRF	Relative Response Factor	
RSD	Relative Standard Deviation	
SDG	Sample Delivery Group	
SOW	Statement of Work	
SO W	Statement of WOLK	

HRS Reference #72

Sample Quantitation Limit soil/sediment soil/sediment medium level Superfund Technical Assessment and Response Team semivolatile organic compound surface water Trip Blank Target Compound List Technical Direction Document Tentatively Identified Compound

Traffic Report volatile organic compound Weston Solutions, Inc.

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SITE: JARD COMPANY INC CASE: 43392 SDG: A4B24 LABORATORY: CHEMTECH

CONSULTING GROUP

DATA SUMMARY TABLE 1 AROCLOR IN SOIL ANALYSIS μg/Kg

	SAM	PLE NUMBER	A4B24	A4B25	A4B26	A4B27	A4B28	A4B29	A4B33
	SAMPI	LE LOCATION	SO-07	SO-14	SO-200	SO-21	SO-22	SO-23	SO-62
	STATIC	N LOCATION	JCS-008	JCS-015	JCS-475	JCS-024	JCS-025	JCS-026	JCS-076
	LABORATO	ORY NUMBER	E1902-01	E1902-02	E1902-03	E1902-04	E1902-05	E1902-06	E1902-09
COMPOUND	MDL	CRQL							
Aroclor-1016	2.6	33	41 U	37 U	37 U	36 U	36 U	36 U	38 U
Aroclor-1221	7.8	33	41 U	37 U	37 U	36 U	36 U	36 U	38 U
Aroclor-1232	1.3	33	41 U	37 U	37 U	36 U	36 U	36 U	38 U
Aroclor-1242	6.2	33	41 U	120	130	110 J	140	36 U	180
Aroclor-1248	2.7	33	41 U	37 U	37 U	36 U	36 U	36 U	38 U
Aroclor-1254	3.2	33	41 U	37 U	37 U	36 U	36 U	36 U	38 U
Aroclor-1260	3.2	33	41 U	37 U	37 U	36 U	36 U	36 U	38 U
Aroclor-1262	14	33	41 U	[′] 37 U	37 U	36 U	36 U	36 U	38 U
Aroclor-1268	6.6	33	41 U	- 37 U	37 U	36 U	36 U	36 U	38 U
	DILUT	TION FACTOR	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	DA	TE SAMPLED	4/3/2013	4/3/2013	4/3/2013	4/3/2013	4/3/2013	4/3/2013	4/4/2013
	DATE	EXTRACTED	4/19/2013	4/19/2013	4/19/2013	4/19/2013	4/19/2013	4/19/2013	4/19/2013
	DAT	E ANALYZED	4/25/2013	4/25/2013	4/25/2013	4/25/2013	4/25/2013	4/25/2013	4/25/2013
	SAMPLE WEI	GHT (GRAMS)	30	30.1	30.0	30.0	30.0	30.0	30.1
		% SOLID	80.4	88.8	88.4	90.8	91.0	90.6	85.6

NOTES: μg/Kg = micrograms per Kilogram

All results are reported on a Dry Weight Basis.

MDL = Method Detection Limit

CRQL = Contract Required Quantitation Limit

U = Value is Non-Detected.

UJ = Value is Non-Detected, and Detection Limit is Estimated.

J = Value is Estimated.

R = Value is Rejected.

* = Reported value is from diluted analysis.

SITE: JARD COMPANY INC CASE: 43392 SDG: A4B24 LABORATORY: CHEMTECH

DATA SUMMARY TABLE 1 AROCLOR IN SOIL ANALYSIS µg/Kg

CONSULTING GROUP

	SAMI	PLE NUMBER	A4B35	A4B17	A4B18	A4B19	A4B20	A4B21	A4B22
	SAMPL	E LOCATION	SO-65	SB-01	SB-03	SB-05	SB-06	SB-08	SB-09
	STATIC	N LOCATION	JCS-086	JCS-130	JCS-136	JCS-138	JCS-148	JCS-153	JCS-143
	LABORATO	ORY NUMBER	E1902-10	E1902-13	E1902-14	E1902-15	E1902-16	E1902-17	E1902-18
COMPOUND	MDL	CRQL							
Aroclor-1016	2.6	33	38 U	3900 U	3500 U	37 U	36 U	3600 U	36 U
Aroclor-1221	7.8	33	38 U	3900 U	3500 U	37 U	36 U	3600 U	36 U
Aroclor-1232	1.3	. 33	38 U	3900 U	3500 U	37 U	36 U	3600 U	36 U
Aroclor-1242	6.2	33	38 U	280000 *	4800000 *	820 *	1900 *	730000 *	40000 *
Aroclor-1248	2.7	33	38 U	3900 U	3500 U	37 U	36 U	3600 U	36 U
Aroclor-1254	3.2	33	38 U	3900 U	3500 U	- 37 U	36 U	3600 U	36 U
Aroclor-1260	3.2	33	38 U	3900 U	3500 U	37 U	36 U	3600 U	36 U
Aroclor-1262	14	- 33	38 U	3900 U	3500 U	37 U	36 U	3600 U	36 U
Aroclor-1268	6.6	33	38 U	3900 U	3500 U	37 U	36 U	3600 U	36 U
	DILUT	ION FACTOR	1.0	100 / 1000*	100 / 2000*	1 / 2*	1 / 10*	100 / 2000*	1 / 100*
	DA	TE SAMPLED	4/5/2013	4/1/2013	4/1/2013	4/8/2013	4/8/2013	4/8/2013	4/8/2013
	DATE	EXTRACTED	4/19/2013	4/19/2013	4/19/2013	4/19/2013	4/19/2013	4/19/2013	4/19/2013
	DAT	E ANALYZED	4/25/2013	4/26/2013	4/26/2013	4/26/2013	4/26/2013	4/26/2013	4/26/2013
	SAMPLE WEI	GHT (GRAMS)	30	30	30	30.1	30.1	30.1	30.1
		% SOLID	85.7	84.1	93.5	90.2	90.7	91.0	92.4

NOTES: μg/Kg = micrograms per Kilogram

All results are reported on a Dry Weight Basis.

MDL = Method Detection Limit

CRQL = Contract Required Quantitation Limit

U = Value is Non-Detected.

UJ = Value is Non-Detected, and Detection Limit is Estimated.

J = Value is Estimated.

R = Value is Rejected.

* = Reported value is from diluted analysis.

SITE: JARD COMPANY INC CASE: 43392 SDG: A4B24 LABORATORY: CHEMTECH

CONSULTING GROUP

DATA SUMMARY TABLE 1 AROCLOR IN SOIL ANALYSIS μg/Kg

		PLE NUMBER		A4B30	A4B31	A4B32	A4B34		
	SAMPL	E LOCATION	SO-06	SO-34	SO-36	SO-46	SO-64		
	STATIC	N LOCATION	JCS-006	JCS-046	JCS-048	JCS-061	JCS-183		
	LABORATO	ORY NUMBER	E1902-19	E1902-20	E1902-21	E1902-22	E1902-23		
COMPOUND	MDL	CRQL							
			,						
Aroclor-1016	2.6	33	39 U	37 U	39 U	38 U	38 U		
Aroclor-1221	7.8	33	39 U	37 U	39 U	38 U	38 U	1	
Aroclor-1232	1.3	33	39 U	37 U	39 U	38 U	38 U		
Aroclor-1242	6.2	. 33	150 J	320	1600 *	1200 *	280 J		
Aroclor-1248	2.7	33	39 U	37 U	39 U	38 U	38 U		
Aroclor-1254	3.2	33	39 U	37 U	39 U	38 U	38 U		
Aroclor-1260	3.2	33	39 U	37 U	39 U	38 U	38 U		
Aroclor-1262	14	33	39 U	37 U	39 U	38 U	38 U		
Aroclor-1268	6.6	33	39 U	37 U	39 U	38 U	38 U		
	DILUT	ION FACTOR	1.0	1.0	1 / 10*	1 / 10*	1.0		'
	DA	TE SAMPLED	4/3/2013	4/4/2013	4/4/2013	4/4/2013	4/4/2013		
	DATE	EXTRACTED	4/19/2013	4/19/2013	4/19/2013	4/19/2013	4/22/2013		
	DAT	E ANALYZED	4/25/2013	4/25/2013	4/26/2013	4/26/2013	4/25/2013		
	SAMPLE WEI	GHT (GRAMS)	30	30	30	30	30.1		
		% SOLID	85.3	88.6	84.9	88.8	85.6		

NOTES: μg/Kg = micrograms per Kilogram

All results are reported on a Dry Weight Basis.

MDL = Method Detection Limit

CRQL = Contract Required Quantitation Limit

U = Value is Non-Detected.

UJ = Value is Non-Detected, and Detection Limit is Estimated.

J = Value is Estimated.

R = Value is Rejected.

* = Reported value is from diluted analysis.

REGION I, EPA-NE ORGANIC REGIONAL DATA ASSESSMENT (ORDA)*

Case No.: <u>1339</u> 2	Site Name: Jard Company INC
SDG No.: 44 B 7 4	No. of Samples/Matrix: / 9/ Soci L
Lab Name: Chemtech Consulting Goup	Validation Contracto WESTON
SOW#/Contract#: SOM01.2	Validator's Name: Bill Mahany
EPA-NE DV Tier Level:Tier II	Date DP Rec'd by EPA-NE:
TPO/PO: **ACTION FYI	DV Completion Date: 5/30/13
ANALYTICAL DATA QUALITY SU	MMARY
1. Preservation and Contractual Holding Times: 2. GC/MS / GC/ECD Instrument Performance Check: 3. Initial Calibration: 4. Continuing Calibration: 5. Blanks: 6. DMCs or Surrogate Compounds: 7. Internal Standards: 8. Matrix Spike/Matrix Spike Duplicate: 9. Sensitivity Check: 10. PE samples - Accuracy Check: 11. Target Compound Identification: 12. Compound Quantitation and Reported QLs: 13. Tentatively Identified Compounds: 14. Semivolatile Cleanup/Pesticide/PCB Cleanup: 15. Data Completeness: 16. Overall Evaluation of Data: 0 = Data had no problems or were qualified due to minor contractual m = Data were qualified due to major contractual problems. z = Data were rejected as unusable due to major contractual problem	'
Areas of Concern (m items):	
Comments:	
*This form assesses the analytical data quality in items of contractual errors and/or non-contractual analytical issues that affect data quality	
** Check "ACTION" only if contractual defects resulted in reduced p	ayment/data rejection recommendations. ate: $\frac{5/3 \sqrt{3}}{3}$

Site Name:	Jard Company	Inc
TDD No.:	12-10-0008	
Task No.:	0850	

REGION I ORGANIC DATA VALIDATION

The following data package has been validated:	
Lab Name: Chamtech Consulting Gour	SOW #/Contract #: SOM01.2
Case No.: 4339 2	Sampling Dates:
SDG No.: AY B 7 7	
	1/10/10/12
No. of Samples/Matrix:	Date Rec'd by Lab: 7//4-19//3
Traffic Report Sample Nos: 446み4~の)	B33, B35, AYBIT -> B23, B30-32, B3
Trip Blank No.:	
Equipment Blank No: AY 605, 806, 808,	Body B10
Field Duplicate Nos: AYBYS/BY6	
PE Nos: <u>AY 856/ B 5</u> 7	
The <u>Region I, EPA - NE Data Validation Functional Guidel</u>	ines for Evaluating Environmental Analyses.
revision 12/96 was used to evaluate the data and/or appro	ved modifications to the EPA - NE Functional
Guidelines were used to evaluate the data and are attache	
criteria from EPA approved QAPjP or amendment to the Q	APjP).
A Tier II or a Tier III evaluation was used to validate the da	
was used, then identify samples, parameters, etc. that rece	eived partial Tier III validation:
	West of the second seco
The data were evaluated based upon the following parame	toro
The data were evaluated based upon the following parame	eters:
- Overall Evaluation of Data	- Field Duplicates
- Data Completeness (CSF Audit - Tier I)	- Sensitivity Check
- Preservation and Technical Holding Times	- PE Samples/Accuracy Check
- GC/MS and GC/ECD Instrument Performance Check	- Target Compound Identification
- Initial and Continuing Calibrations	- Compound Quantitation and Reported
- Blanks	Quantitation Limits
- Surrogate Compounds	-TICs
- Internal Standards	-Semivolatile and Pesticide/PCB Cleanup
- Matrix Spike/Matrix Spike Duplicate	- System Performance
пали ортогнали орто Варново	Cystom i chomianoc
Region I Definitions and Qualfiers:	
A - Acceptable Data	
J - Numerical value associated with compound is an estim	ated quantity.
R - The data are rejected as unusable. The R replaces the	
U - Compound not detected at that numerical sample quar	
UJ - The sample quantitation limit is an estimated quantity.	
TB, EB - Compound detected in aqueous trip blank or aqu	
TB, EB - Compound detected in aqueous trip blank or aqu	eous equipment blank associated with soil/sediment samples.
	eous equipment blank associated with soil/sediment samples.
	eous equipment blank associated with soil/sediment samples. Company Name: WESTON Phone Number: 978-552-2100
	cous equipment blank associated with soil/sediment samples. Company Name: WESTON Phone Number: 978-552-210
and Malanx	eous equipment blank associated with soil/sediment samples.

Data Validation Worksheet Cover Page - Page 2

Check if all criteria are met and no hard copy worksheet provided. Indicate NA if worksheet is not applicable to analytical method. Note: There is no standard worksheet for System Performance, however, the validator must document all system performance issues in the Data Validation Memorandum.

VOA/SV Worksheets:

TABLE II - WORKSHEET OVERALL EVALUATION OF DATA	\ \ \ \ \ \ \ \	/OA/SV-IV /OA/SV-Pest/PCB-V-A /OA/SV-Pest/PCB-V-B /OA-VI SV-VI /OA/SV-VII /OA/SV-Pest/PCB-VIII /OA/SV-Pest/PCB-IX /OA/SV-Pest/PCB-XI /OA/SV-Pest/PCB-XII /OA/SV-Pest/PCB-XIII /OA/SV-Pest/PCB-XIII /OA/SV-XIV /OA/SV-XIV	CONTINUING CALIBRATION BLANK ANALYSIS BLANK ANALYSIS VOA SURROGATE SPIKE RECOVERIES SV SURROGATE SPIKE RECOVERIES INTERNAL STANDARD PERFORMANCE MATRIX SPIKE/MATRIX SPIKE DUPLICATE FIELD DUPLICATE PRECISION SENSITIVITY CHECK ACCURACY CHECK/ PE SCORE SHEETS TARGET COMPOUND IDENTIFICATION SAMPLE QUANTITATION TENTATIVELY IDENTIFIED COMPOUNDS SEMIVOLATILE CLEANUP OVERALL EVALUATION OF DATA	
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Pest/ARO Worksheets:

VOA/SV-Pest/PCB	COMPLETE SDG FILE (CSF) AUDIT	(w)
VOA/SV-Pest/PCB-I	PRESERVATION AND HOLDING TIMES	@
Pest/PCB-IIA	GC/ECD INSTRUMENT PERFORMANCE CHECK-	
	RESOLUTION	Commence
Pest/PCB-IIB	GC/ECD INSTRUMENT PERFORMANCE CHECK-	
	RETENTION TIMES	V
Pest/PCB-IIC	GC/ECD INSTRUMENT PERFORMANCE CHECK-	-
	ACCURACY CHECK OF INITIAL CALIBRATION	
Pest/PCB-IID	GC/ECD INSTRUMENT PERFORMANCE CHECK-	
	PESTICIDE DEGRADATION	-
Pest/PCB-III	INITIAL CALIBRATION	
Pest/PCB-IV	CONTINUING CALIBRATION	-
VOA/SV-Pest/PCB-V-A	BLANK ANALYSIS	1
VOA/SV-Pest/PCB-V-B	BLANK ANALYSIS	
Pest/PCB-VI	SURROGATE COMPOUNDS: SPIKE RECOVERIES	
	AND RETENTION TIME SHIFT	*
Pest/PCB-VII	PESTICIDE CLEANUP	-
VOA/SV-Pest/PCB-VIII	MATRIX SPIKE/MATRIX SPIKE DUPLICATE	
VOA/SV-Pest/PCB-IX	FIELD DUPLICATE PRECISION	1
VOA/SV-Pest/PCB-X	SENSITIVITY CHECK	NA
VOA/SV-Pest/PCB-XI	ACCURACY CHECK/ PE SCORE SHEETS	@
Pest/PCB-XII	COMPOUND IDENTIFICATION	
VOA/SV-Pest/PCB-XIII	SAMPLE QUANTITATION	
TABLE II - WORKSHEET	OVERALL EVALUATION OF DATA	*

I certify that all criteria were met for the worksheets checked a	above.		@ - always included * - See DV Memo
Signature: Wm V	Name:	Bell	Mahan-1
Date: 5///3			•

COMPLETE SDG FILE (CSF) AUDIT

Organic Fractions:	Aroclor of	v/ /	
Missing Information		Date Lab Contacted	Date Received
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			PANTA CONTRACTOR OF THE STATE O

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Validator:	thany	Date:	5/20/13

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Sampler: G. Wumn Company: WESTON Contacted: Date:

1. PRESERVATION AND HOLDING TIMES

Cooler 506 Coocumented: Page: 747-90

Circle sample numbers with exceeded technical holding times or omitted preservation.

List all required preservation codes and circle omitted preservation codes.

Circle all exceeded technical holding times.

Identify extraction technique after "# of Days"/(*Extraction Code).

						PE						Al	70		
1					# of Days			# of Days			# of Days			# of Days	
Sample No.		Pres.	Date	Date	from Samp.	*Ext.	Date	from Ext.		Date	from Samp.	*Ext.	Date	from Ext.	
(TR No.)	Matrix	Code		Extracted	to Ext.	Code	Analyzed	to Anal.	Action	Extracted		Code	Analyzed		Action
AYBYY	Soil	<u>. 1</u>	4/3/13							4/19/13	16	So X	7/25/13	6	A ¥
BYS.			1 1			i									11
136			L-L												
B27															
888															
329			V								V				
833	\rightarrow	_	4/4/13			·					lS				l 1
B35	V		4/5/13				1	·			14		V		
856	PE		4/17/13							 	3		V	<u> </u>	
857	V		1				///			 	3		4/86/13	7	
AYBIT	Soil		4/1/13							 	18		Y/26/13		4
B18			1 /4/12							 	V		 \ 		3
B19			4/8/13							 	17		+		
820			 							1					
071 077			1			· · · · · · · · · · · · · · · · · · ·							 		
033	-+-		4/3/13					_		4/72/13	16	-+-	4/25/13	6	4
B30			Y 14/13							19/19/12	15		1 6	- V -	1 7
1331			114/12							 	13		Y/X6/13	7	
1337			 			<u> </u>				 			1/86//-		1
834							-	-	/				4/25/13		7
//	~		W						_	-			1/80/13		V V
		- V													
		\neg													

Preservation Code:

- 1. Cool @ 4°C (± 2°C)
- 2. Preserve with HCl to \leq pH 2.
- 3. Protect from light.
- 5. Room temperature (avoid excessive heat).
- 6. Encore sampler (48 hour hold time).

*Extraction Code:

L/L - Liquid/Liquid SON - Sonication

SEP - Separatory funnel

SOX - Soxhlet

SPE - Solid Phase Extraction

Action Code:

J - Estimate (J) detected values.

UJ - Estimate (UJ) non-detected values.

R - Reject (R) non-detected values.

At = 1-41 holding time let ZIA on chemist discussions, and sw-946/cocol.) reference.

Matrix Codes:

AQ - Aqueous S/S - Soil/Sediment AQ FB - Aqueous Field Blank

EPA-NE - Data Validation Worksheet VOA/SV - Pest/ARO - V

V. Rinsate Blank Tabulation - list the applicable rinsate (equipment) blanks below:

Rinsate Blank No.	Sample No.	Equipment Rinsed to Generate the RB	Matrix Applies to:
RB- 0	AY 802	Scol Re Je	Ci L
RB- 02	Bo 5	Vand Auger	1
RB- 03	606	1	
RB- 03 RB- 05	1308		
RB- 01	B16	GeofRobe	V
RB-			

Matrix Codes: SS - surface soil

SD - sediment

SO - source soil

SB - soil boring

GW - groundwater

DW - drinking water

SW - surface water

Note: Apply each RB only to the matrix to which it corresponds. For example, apply the hand auger RB to the soil samples, but not to the surface water samples.

If more than one hand auger/soil sample RB was collected, the RBs may be batched and the highest hit from the batch used to determine the action levels. However, if one RB exhibits an unusual amount of contamination, apply this RB to only the associated samples. Do not batch this RB and apply to all samples of the same matrix.

Validator: Mchan

Date: 5/29/13

EPA - NE - Data Validation Workshe	e
VOA/SV - Pest/PCB -XI	

SDG No.: AYBYY

Case: 43392

Are more than one-half the PE analytes within criteria for each parameter?

Yes

No

Always submit this sheet and attach PE score sheets

PE Sample No.	Ampule No.	Parameter	Type of PE	Matrix	Analyte	Conc.	Region I EPA PE Scores*	Samples Affected	Action
44056	A5Xd84	So/Aso	single blind	<i>S</i> ∅	Aclaya	UM.	P455		
857	451507	30/1400	Sirigle billiu	V	1360	1	V.	None	None
95/	1701301	. **			196	N N			
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						·	437		

^{*}For Region I PE indicate the Region I PE Score report result: Action High, Acion Low, TCL Miss, or TCL Contaminant.

Validator:	Mahani	

Date: 5 30 3

PES SCORING EVALUATION REPORT

PES ASX0184

Rev: 2

EPA Sample No.: A4B56

Report Date: 05/13/2013

Page 1 of 1

Lab Name: Chemtech Consulting Group

Contract: EPW11030

Case No.: 43392

Lab Code: CHEM SAS/Client No.: NA

SDG No.: A4B24 Lab File ID: PB004938.D Matrix: Soil

Lab Sample ID: E1902-11 Date Extracted: 04/19/2013

Date Analyzed: 04/25/2013

Date Received: 04/18/2013

% Moisture: 0.0

Decanted: No

Sample Wt./Vol. (g/mL): 30.0 g Extraction Type: SOXH

Injection Vol. (uL): 1.0

Conc. Extract Vol. (uL): 10000

Sulfur Cleanup: No

GPC Cleanup: No Dilution Factor: 1.0

pH: NA Units: ug/Kg

Analysis Method: SOM01.2 Scoring Method: SOM01.2

Comments:

CAS No.	Analyte	Laboratory	Results	PES Evaluation		
		Concentration	Q			
53469-21-9	Aroclor-1242	870	D	PASS	Within Limits	
****	END Main Analytes	******	****	****	*****	
****	END All Analytes	******	****	****	******	
			,		*	
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				,		
				-1-1	·	
	***************************************		***************************************			
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PES SCORING EVALUATION REPORT

PES AS1507

Rev: 1

EPA Sample No.: A4B57

Report Date: 05/13/2013

Page 1 of 1

Lab Name: Chemtech Consulting Group

Contract: EPW11030

Case No.: 43392

Lab Code: CHEM SAS/Client No.: NA

SDG No.: A4B24

Matrix: Soil Lab Sample ID: E1902-12

Lab File ID: PB004940.D

Date Received: 04/18/2013

Date Extracted: 04/19/2013

Date Analyzed: 04/26/2013

Sample Wt./Vol. (g/mL): 30.1 g

% Moisture: 0.0

Decanted: No Injection Vol. (uL): 1.0 Extraction Type: SOXH

Conc. Extract Vol. (uL): 10000

GPC Cleanup: No

Sulfur Cleanup: No

pH: NA

Dilution Factor: 1.0

Units: ug/Kg

Analysis Method: SOM01.2 Scoring Method: SOM01.2

Comments:

CAS No.	Analyte	Laboratory Results		PES Evaluation	
		Concentration	Q .		
11096-82-5	Aroclor-1260	830	D	PASS	Within Limits
****	END Main Analytes	******	****	****	*****
****	END All Analytes	*****	****	****	*****
		1			
		-		l	***************************************
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XIII. SAMPLE QUANTITATION

If no PE, do sample calculation.

Recalculate, from the raw data, the concentration for one positive detect and one reported sample quantitation limit (SQL) for a non-detect in a diluted sample or soil sample per fraction. (Note: Although Section XIII, C 2. a. requires that one calculation for each fraction in each sample be performed, the validator is only required to reproduce an example, for each fraction, of one positive detect and one SQL calculation on this worksheet.)

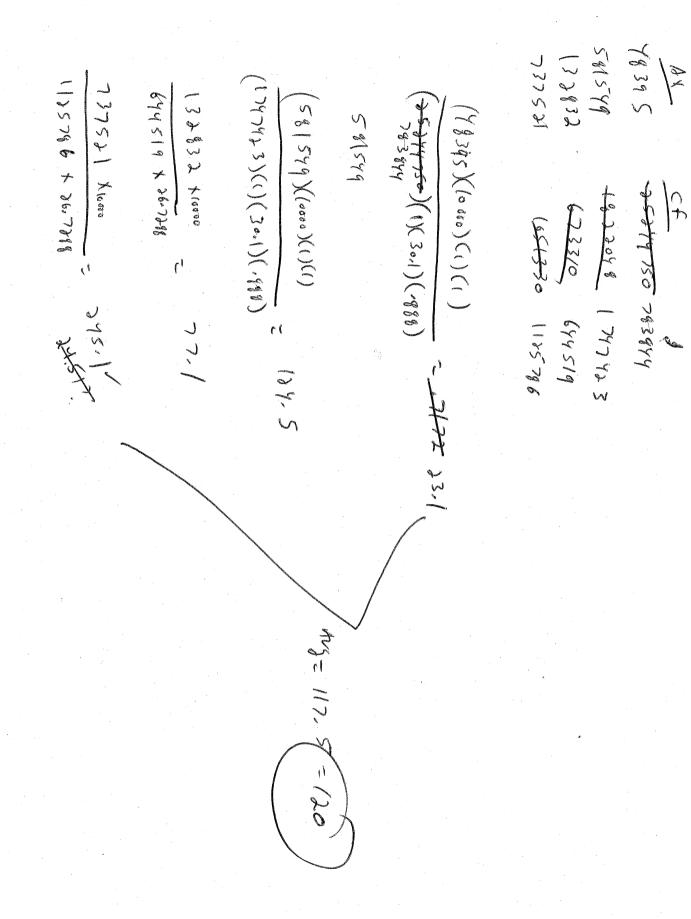
Fraction	Calculation*			
VOC	Detect:	Non-detect QL:		
Sample No.:	The second secon			
Reported Compound:				
Reported Value:				
Non-detected Compound:				
Reported Quantitation Limit:				
SVOC	Detect:	Non-detect QL:		
Sample No.:				
Reported Compound:				
Reported Value:				
Non-detected Compound:				
Reported Quantitation Limit:				
P/PCB	Detect: $(A_{k})(V_{7})(0F)(GPC)$	Non-detect QL:		
Sample No.: A4675	(F)(V;)(V;)(V;)(V;)(V;)(V;)(V;)(V;)(V;)(V;	11 33 x 30 x 1 - 2 > 36		
Reported Compound: A(1) 47	$(F)(V_i)(W_s)(0)$	7 501 7 500 2 3 7,038		
Reported Value: 130 Non-detected Compound: M1754	1 30.1 100-11-2-0.90	68 33 × 3° × 1 = 37,038		
Reported Quantitation Limit: 37 U	100 -000			
Property and the second	T NA C TI III C TI III C TI			

* - NA for Tier II if PE score is OK.

Do all soil/sediment samples have % solids greater than 30%? Y N If solids <30%, have sample volumes been increased sufficiently to compensate? Y N If no. list sample numbers_____

Validator: MAM ANY

Date: 5/3°//3



VI. SURROGATE SPIKE RECOVERIES - PESTICIDES/PCBS

List the percent recoveries which do not meet the method QC acceptance criteria.

	TCX		DCB		Action	
Sample No.	Column 1	Column 2	Column 1	Column 2	Detects	Non-detects
AYBIT	5978	475	276	769	7 A	A
B1 8	19413	530	366	717	YA	1 .
821	13123	1162	866	860	VA	V
872	378	88	7.5	85	A	A
AYBITOL	0	0	O	\Box	À	Pa
AYBISOL	O	0	0	0		
A 43210L	0		<u> </u>	C		
					4	
					-	
					# 100 1 100 1 100	
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						, e
	-		-			
	-					
		-				
TCX - Tetrachloro-n	2-34/000	DCB - Decad	alorobinhonyl			

> 100% then 1000-20%

TCX - Tetrachloro-m-xylene

DCB - Decachlorobiphenyl

OC Limits:	30-150	30-150
QO LIITIIG.	30-130	30-130

Qualification of data:

- 1. No action is taken when a sample is analyzed at a dilution.
- 2. No action is required when only one of the four surrogates is outside the QC acceptance criteria and the recovery is > 10%.
- 1. Estimate (J, UJ) all positive and non-detected results if any two surrogates are < the QC acceptance criteria.
- 2. Estimate (J) all positive results if any two surrogates are > the QC acceptance criteria.
- 3. Reject (R) all non-detected results and estimate (J) all positive results if any one surrogate is < 10%.

	1			
Sample	One or more	Two or more surrogates	All surrogates	Two or more
Results	surrogates < 10%	10% <u><</u> %R < LL	$LL \le \%R \le UL$	surrogates > UL
Detects	J	J	A	J
Non-detects	R	UJ ·	Α	A

LL - Lower Limit

UL - Upper Limit

Validator: MA WMY	Date:	5/30/13
validator.	Date	1 [

Sample No. A4827 A4823 A4834	Compound AR1342 AR1342 AR1342	Column I	Column II	%D	Action	Comments
A4827	AR1242	110 150 410	190 190 780	73.7 26.7 46.4	3	
A4 B23	AR1242	150	190	26.7	.5	
A4834	ARIZYZ	410	780	46.4	100	
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	And the second s					
						
	4					

Use Comments section to list compounds that went to "U" due to Blank Contamination Actions or Co-elution with Aroclors.

Actions:

- J Estimate results when %D > 25% but \leq 100% for pesticides or %D >25% but \leq 500% for PCBs.
- J@ %D >25% but ≤100% for pesticides or %D > 25% but ≤500% for PCBs. Previously qualified as estimated by laboratory due to quantitation below the quantitation limit. No further qualification is needed.
- R Reject results when %D >100 for pesticides or %D >500% for PCBs.
- U Qualify result as undetected at the CRQL when %D >100% for pesticides or %D >500% for PCBs and both results are < the CRQL.
- U* Report the non-detected result from the diluted analysis.
- U^ Compound not confirmed by GC/MS. Raise detection limit to reported concentration.
- DL Report the result from the diluted analysis.

	MANANY
Validator:	200410410

Date: 5/30//3

107, MW-2, MW-3, MW-3D, MW-6, MW-6D, MW-9D, and MW-11. Based on the above information, START personnel planned to purge/develop monitoring wells MW-2, MW-3, MW-3D, MW-6, and MW-6D on 28 March 2013.

1630 hrs: START personnel marked properties located along Park Street and Bowen Road for Dig Safe notification. Following dig safe marking; START personnel secured and departed the site.

28 March 2013 (Thursday) - Site Reconnaissance, Well Development

Weather: Cloudy, high 30 to low 40 °F

0700 hrs: START members Kelly, Hornok, Bitzas, and Robinson arrived at the Jard property. START members completed calibration checks on air monitoring instrument; MultiRAE Plus, LEL, O₂, H₂S, CO, and PID meter. Background ambient readings: LEL = 0%; O₂ = 20.9%; H₂S = 0 ppm; CO = 0 ppm; and VOC = 0 ppm.

0715 hrs: START HSC Kelly reviewed the site HASP and conducted a tailgate health and safety meeting for all on-site START personnel, including reviews of the physical hazards (uneven terrain, trips-slips-falls, potential weather issues), chemical hazards [PCBs, non-aqueous phase liquids (NAPL) containing water], Radiation (Not encountered previously) and biological hazards (ticks, poison ivy, animals). Personnel reviewed and signed the HASP documentation, as needed.

0800 hrs: START personnel began purging/developing the selected ground water monitoring wells using a Wattera inertia pump system with dedicated tubing, check valve, and surge block at each well. START personnel established on site investigative derived waste (IDW) staging area along west side of Source Pile, on asphalt pavement area/driveway. Location will allow truck for IDW pickup to enter and exit site easily. Staging area consists of 55-gallon drums placed on wooden pallets.

0900 hrs: START PL. Kelly discussed with CORs Bosworth and Smith regarding status of the monitoring well examination, and selection of wells to be purged and sampled. CORs agreed with selection of wells to be sampled.

START personnel continued well purging operations. For the monitoring wells selected for

START personnel continued well purging operations. For the monitoring wells selected for redevelopment/purging, the purge volume in approximate (~) gallons is listed for each well. The following ~ volumes of ground water and/or material were purged from the groundwater wells listed above: MW-2: ~10 gallons; MW-3: ~10 gallons; MW-3D: ~20 gallons; MW-6: ~5 gallons; and MW-6D: ~30 gallons. Approximately 4.5 feet of silt material was removed from ground water monitoring well MW-6D. In addition, a very thin NAPL with a greasy feel, along with black oil-like droplets, and a rainbow sheen were observed in IDW purge water removed from MW-3, MW-3D, and MW-6D.

1330 hrs: START personnel secured the groundwater monitoring well IDW purge water drums, secured the site and departed the Jard property.

1 April 2013 (Monday) - Soil/Source Sampling

Weather: Cloudy, some rain, 45 to 50 °F

1045 hrs: START members Kelly, Hornok, Bitzas, Imbres, Robinson, and Jonathan Saylor arrived at the Jard property.

1100 hrs: START HSC Kelly reviewed the site HASP and conducted a tailgate health and safety meeting for all on-site START personnel, including reviews of the physical hazards (uneven terrain, trips-slips-falls, heavy lifting, Geoprobe Work concerns, potential adverse weather conditions), chemical hazards (PCBs), Radiation (Not encountered previously but will be monitored) and biological hazards (ticks, poison ivy, animals). Personnel reviewed and signed

Jard Company, Inc.
Bennington, Vermont
CERCLIS No. VTD048141741

TDD No. 01-12-10-0008 Logbook No. 01433-S Site Reassessment

the HASP documentation, as needed. START members completed calibration checks on air monitoring instrument; MultiRAE Plus, LEL, O_2 , H_2S , CO, and PID meter. Background ambient readings: LEL = 0%; O_2 = 20.9%; O_2 = 0 ppm; O_2 = 0 ppm; and O_2 = 0 ppm. START Team established decontamination area.

1115 hrs: START personnel began decontaminating non-dedicated field sampling equipment including Geoprobe macrocores and cutting shoes, hand augers, metal scoops, and low-flow bladder pumps. Non-dedicated equipment (Geoprobe equipment, augers, metal scoops, etc.) will be decontaminated after the collection of each sample, and prior to use for the collection of other samples.

1400 hrs: Began soil boing activities with the Geoprobe at soil boring location SB-01 located on the south-central area of the former building footprint in an area previously excavated during an EPA Removal action. An EPA removal action was completed at the site during 2007 where the building was razed, a portion of the concrete foundation was removed, and a permeable earthen cap was installed to limit exposure to contaminated soils. Boring activities as part of the Site Reassessment were targeted at the area of the foundation removal and soil excavation (southern portion of the former building footprint).

Sampling on the Jard property and surrounding properties for solid matrices (soil/source, surface soil, and sediment) will be conducted as follows, unless otherwise noted: locations will be designated prior to initiation of sampling activities; at each location, sampling depth will be determined based on sampling objectives and/or materials encountered; for each sampled depth interval at each location, material will be placed in a large polyethylene bag (12 by 15 inches); the material will then be homogenized completely in the bag; the material will later be described by a licensed professional geologist using the modified Burmiester soil classification system and a small sample aliquot will be collected for PCB field screening analysis performed by the US EPA Mobile Laboratory personnel; based on field screening results and sampling objectives, a subset of samples will be selected for further analysis via Contract Laboratory Program (CLP) Aroclor analysis; samples selected for CLP analysis will be aliquoted with sufficient quality assurance/quality control (QA/QC) volume; all solid matrix samples submitted for CLP Aroclor analysis will also be aliquoted for potential congener analysis, unless otherwise noted; following receipt of CLP Aroclor analytical results, a smaller subset of samples will then be selected and submitted for congener analysis. A separate field data sheet will be completed by the field sampler for each sample collected to document relevant information and to supplement field logbook notes.

Additional START personnel performed bump checks on calibrated YSI 550 pH/oxidation reduction potential (ORP)/Conductivity probes for ground water sampling scheduled to be completed on 2 April 2013. All the calibrated ground water sampling equipment was working properly (See calibration log sheets).

1415 hrs: Soil/source sample SB-01A (Sample #: JCS-128) was collected using a Geoprobe macrocore from a depth of 2.7 to 4 feet bgs from soil boring SB-01 and later submitted for PCB field screening analysis.

1420 hrs: Soil/source sample SB-01B (Sample #: JCS-129) was collected using a Geoprobe macrocore from a depth of 6.9 to 8 feet bgs from soil boring SB-01 and later submitted for PCB field screening analysis.

1430 hrs: Soil/source sample SB-01C (Sample #: JCS-130) was collected using a Geoprobe macrocore from a depth of 10.4 to 12 feet bgs from soil boring SB-01 and later submitted for PCB field screening analysis.

1440 hrs: Soil/source sample SB-01D (Sample #: JCS-131) was collected using a Geoprobe macrocore from a depth of 12 to 14 feet bgs from soil boring SB-01 and later submitted for PCB field screening analysis.

Jard Company, Inc.

Bennington, Vermont

CERCLIS No. VTD048141741

- 1500 hrs: START personnel completed soil boing activities at location SB-01. Soil boring SB-01 was completed to a depth of 14 feet bgs due to refusal. See the soil Boring Logs for complete descriptions of the boring completed. The soil boring was backfilled with sand and bentonite. START personnel relocated to and began boring activities at soil boring location SB-02 located on the south-central area of the former building footprint in an area previously excavated during an EPA Removal action.
- 1520 hrs: Soil/source sample SB-02A (Sample #: JCS-132) was collected using a Geoprobe macrocore from a depth of 2.2 to 4 feet bgs from soil boring SB-02 and later submitted for PCB field screening analysis.
- 1530 hrs: Soil/source sample SB-02B (Sample #: JCS-133) was collected using a Geoprobe macrocore from a depth of 6.9 to 8 feet bgs from soil boring SB-02 and later submitted for PCB field screening analysis.
- 1540 hrs: Soil/source sample SB-02C (Sample #: JCS-134) was collected using a Geoprobe macrocore from a depth of 8.8 to 10 feet bgs from soil boring SB-02 and later submitted for PCB field screening analysis.
- 1545 hrs: START personnel completed soil boing activities at location SB-02. Soil boring SB-02 was completed to a depth of 10 feet bgs due to refusal. Evidence (piece of) the orange snow fence layer installed as part of the earthen cap construction was encountered at 2.5 feet bgs. See the soil Boring Logs for complete descriptions of the boring completed. The soil boring was backfilled with sand and bentonite. START personnel relocated to and began boring activities at soil boring location SB-03, located on the south-central capped area, adjacent to ground water monitoring wells MW-3 and MW-3D.
- 1555 hrs: Soil/source sample SB-03A (Sample #: JCS-135) was collected using a Geoprobe macrocore from a depth of 0.7 to 2.6 feet bgs from soil boring SB-03 and later submitted for PCB field screening analysis.
- 1605 hrs: Soil/source sample SB-03B (Sample #: JCS-136) was collected using a Geoprobe macrocore from a depth of 4.8 to 6.5 feet bgs from soil boring SB-03 and later submitted for PCB field screening analysis.
- 1610 hrs: START personnel completed soil boing activities at location SB-03. Soil boring SB-03 was completed to a depth of 6.5 feet bgs due to refusal. The soil boring was backfilled with sand and bentonite. START personnel completed soil boring activities for the day.
- 1630 hrs: Equipment rinsate blank sample RB-01 (Sample #: JCW-013; CLP #: A4B02) was collected from the Geoprobe macrocore system sampling equipment and is associated with soil/source sampling activities conducted on 1 April 2013.
- 1700 hrs: START personnel secured the site and departed the Jard property.

2 April 2013 (Tuesday) – Ground Water Sampling

Weather: Cloudy, little precipitation, low 30 °F

- 0700 hrs: START members Kelly, Hornok, Bitzas, Imbres, Robinson, and Saylor arrived at the Jard property.
- 0715 hrs: START HSC Kelly HSC Kelly reviewed the site HASP and conducted a tailgate health and safety meeting for all on-site START personnel, including reviews of the physical hazards (uneven terrain, trips-slips-falls, potential weather issues), chemical hazards [PCBs, non-aqueous phase liquids (NAPL) containing water], Radiation (Not encountered previously) and biological hazards (ticks, poison ivy, animals). Personnel reviewed and signed the HASP documentation, as needed. START members completed calibration checks on air monitoring instrument; MultiRAE Plus, LEL, O₂, H₂S, CO, and PID meter. Background ambient readings: LEL = 0%; O₂ = 20.9%; H₂S = 0 ppm; CO = 0 ppm; and VOC = 0 ppm. Note that the ground

water monitoring equipment was calibrated on 1 April 2013 and bump-tested on 2 April 2013, and determined to be with calibration specifications (see calibration sheets).

START Team established decontamination area and conduct decontamination of non-dedicated equipment. Non-dedicated equipment (bladder pumps, measuring tapes, etc.) will be decontaminated after the collection of each sample, and prior to use for the collection of other samples.

0830 hrs: START member Bitzas began monitoring of low-flow parameters at ground water monitoring well EPA-104D located in the wetland area, west of Park Street and downgradient from the Jard property, behind the residential properties. START member Bitzas monitored low-flow ground water parameters per the Site-Specific Quality Assurance project Plan (QAPP) and START standard operating procedures (SOPs). See the field data sheets for more information.

0905 hrs: START member Saylor began monitoring of low-flow parameters at ground water monitoring well MW-11 located northwest of the Jard property. START member Saylor monitored low-flow ground water parameters per the Site-specific QAPP and START SOPs. See the field data sheets for more information.

0920 hrs: Stabilization of water quality parameters was achieved and ground water sample GW-10 [Matrix Spike/Matrix Spike Duplicate (MS/MSD)] (Sample #: JCW-010; CLP #: A4A99) was collected from monitoring well EPA-104D. Ground water sample GW-10 was collected using a bladder pump and the final water quality parameters were as follows: Temperature = 3.74 degrees Celsius (°C); Specific Conductivity = 91 micro Siemens per centimeter (μS/cm); pH = 5.72; ORP = 229.3 millivolts (mv); Dissolved Oxygen (DO) = 9.11 milligrams per liter (mg/L); and turbidity = 21.2 Nephelometric Turbidity Units (NTU). Note: Due to a YSI 550 probe malfunction, an additional volume of sample was collected for pH and ORP measurements using a second YSI 550. In addition, pH was monitored during low-flow activities with pH paper. Readings on pH paper indicated a pH between 5.0 and 6.0. A total of approximately 13.5 liters was purged prior to sample collection with the pump intake at 20.0 ft below the TOC. See the field data sheets for more information.

0940 hrs: START member Imbres began monitoring of low-flow parameters at ground water monitoring well EPA-107 located northwest of the Jard property. START member Imbres monitored low-flow ground water parameters per the Site-specific QAPP and START SOPs. See the field data sheets for more information.

1000 hrs: START member Robinson began monitoring of low-flow parameters at ground water monitoring well MW-9D located west of the Jard property. START member Robinson monitored low-flow ground water parameters per the Site-specific QAPP and START SOPs. See the field data sheets for more information.

1030 hrs: Stabilization of water quality parameters was achieved and ground water sample GW-02 (Sample #: JCW-002; CLP #: A4A91) was collected from monitoring well EPA-107. Ground water sample GW-02 was collected using a bladder pump and the final water quality parameters were as follows: Temperature = 5.14 °C; Specific Conductivity = 162 μ S/cm; pH = 7.12; ORP = 192.9 mv; DO = 4.40 mg/L; and turbidity = 0.51 NTU. A total of approximately 11.0 liters was purged prior to sample collection with the pump intake at 17 ft. below the TOC.

11.0 liters was purged prior to sample collection with the pump intake at 17 ft. below the TOC. Stabilization of water quality parameters was achieved and ground water sample GW-09 (Sample #: JCW-009; CLP #: A4A98) was collected from monitoring well MW-11. Ground water sample GW-09 was collected using a bladder pump and the final water quality parameters were as follows: Temperature = 3.42 °C; Specific Conductivity = 55 µS/cm; pH = 6.34; ORP = 138.6 mv; DO = 11.41 mg/L; and turbidity = 10.3 NTU. A total of approximately 61.7 liters was purged prior to sample collection with the pump intake at 6.5 ft. below the TOC. The turbidity meter initially used to evaluate low-flow ground water parameters compliance malfunctioned and was replaced with one that was operational.

- 1125 hrs: Stabilization of water quality parameters was achieved and groundwater sample GW-08 (Sample #: JCW-008; CLP #: A4A97) and field duplicate GW-11 (Sample #: JCW-011; CLP #: A4B00) were collected from monitoring well MW-9D located west of the Jard property. Ground water samples GW-08 and GW-11 were collected using a bladder pump and the final water quality parameters were as follows: Temperature = 6.52 °C; Specific Conductivity = 44 µS/cm; pH = 6.29; ORP = 25.2 mv; DO = 0.13 mg/L; and turbidity = 34.2 NTU. A total of approximately 17 liters was purged prior to sample collection with the pump intake at 24 ft below the TOC. An issue was encountered with the turbidity meter during low-flow ground water monitoring, and was replaced with one that was operating.
- 1200 hrs: pH and ORP measurements were collected from a volume of water from ground water sample GW-10 and were as follows: pH = 5.72; ORP = 229.3 mv.
- 1250 hrs: START member Imbres began monitoring of low-flow parameters at ground water monitoring well EPA-100 located north of the Jard property. START member Imbres monitored all low-flow ground water parameters per the Site-specific QAPP and START SOPs. See the field data sheets for more information.
- 1310 hrs: START member Bitzas began monitoring of low-flow parameters at ground water monitoring well MW-2 located on the southern portion of the Jard property. START member Bitzas monitored all low-flow ground water parameters per the Site-specific QAPP and START SOPs. See the field data sheets for more information.
- 1345 hrs: START member Saylor began monitoring of low-flow parameters at ground water monitoring well MW-3D located directly south of the former building footprint on the southern portion of the Jard property. START member Saylor monitored all low-flow ground water parameters per the Site-specific QAPP and START SOPs. See the field data sheets for more information.
- 1355 hrs: Stabilization of water quality parameters was achieved and ground water sample GW-01 (Sample #: JCW-001; CLP #: A4A90) was collected from monitoring well EPA-100. Ground water sample GW-01 was collected using a bladder pump and the final water quality parameters were as follows: Temperature = 4.03 °C; Specific Conductivity = 119 μS/cm; pH = 6.61; ORP = 266.3 mv; DO = 11.74 mg/L; and turbidity = 1.78 NTU. A total of approximately 13.8 liters was purged prior to sample collection with the pump intake at 32 ft below the TOC.
- 1345 hrs: START member Robinson began monitoring of low-flow parameters at ground water monitoring well MW-6D located directly west of the former building footprint on the western boundary of the Jard property. START member Robinson monitored all low-flow ground water parameters per the Site-specific QAPP and START SOPs. See the field data sheets for more information.
- 1405 hrs: Stabilization of water quality parameters was achieved and ground water sample GW-03 (Sample #: JCW-003; CLP #: A4A92) was collected from monitoring well MW-02. Ground water sample GW-03 was collected using a peristaltic pump with dedicated tubing and the final water quality parameters were as follows: Temperature = 1.41 °C; Specific Conductivity = 79 μ S/cm; pH = 5.59; ORP = 175.3 mv; DO = 11.41 mg/L; and turbidity = 0.91 NTU. A total of approximately 11 liters was purged prior to sample collection with the intake at 8.6 ft below the TOC.
- 1505 hrs: Stabilization of water quality parameters was achieved and ground water sample GW-05 (Sample #: JCW-005; CLP #: A4A94) was collected from monitoring well MW-3D. Ground water sample GW-05 was collected using a bladder pump and the final water quality parameters were as follows: Temperature = 1.90 °C; Specific Conductivity = 47 μS/cm; pH = 6.37; ORP = 112.7 mv; DO = 4.75 mg/L; and turbidity = 1.16 NTU. A total of approximately 13.6 liters was purged prior to sample collection with the pump intake at 29 ft below the TOC. In addition, stabilization of water quality parameters was achieved and ground water sample GW-07 (Sample #: JCW-007; CLP # A4A96) was collected from monitoring well MW-6D.

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> Ground water sample GW-07 was collected using a bladder pump and the final water quality parameters were as follows: Temperature = 7.17 °C; Specific Conductivity = 42 µS/cm; pH = 6.53; ORP = 203.9 my; DO = 8.80 mg/L; and turbidity = 51.7 NTU. A total of approximately 16.7 liters was purged prior to sample collection with the pump intake at 26.5 ft below the

- 1545 hrs: START member Robinson began monitoring of low-flow parameters at ground water monitoring well MW-6 located directly west of the former building footprint on the western boundary of the Jard property. START member Robinson monitored all low-flow ground water parameters per the Site-specific QAPP and START SOPs. See the field data sheets for more information. The YSI initially used to monitor low-flow ground water parameters was replaced with one that was operational.
- 1555 hrs: START member Saylor began monitoring of low-flow parameters at ground water monitoring well MW-3 located directly south of the former building footprint on the southern portion of the Jard property. START member Saylor monitored all low-flow ground water parameters per the Site-specific QAPP and START SOPs. See the field data sheets for more information. Low-flow ground water parameters were not conducted within a flow cell due to potential contamination/non-aqueous phase liquid (NAPL) within the well. Previous purging of the well on 28 March 2013 indicated product within the well that had a greasy feel and contained small oil droplets that were black in color.
- 1600 hrs: Equipment rinsate blank sample RB-20 (Sample #: JCW-012; CLP #: A4B01) was collected from a bladder pump sampling equipment and is associated with ground water sampling activities.
- 1630 hrs: Stabilization of water quality parameters was achieved and ground water sample GW-06 (Sample #: JCW-006; CLP #: A4A95) was collected from monitoring well MW-6. Ground water sample GW-06 was collected using a peristaltic pump with dedicated tubing and the final water quality parameters were as follows: Temperature = 4.18 °C; Specific Conductivity = 116 μ S/cm; pH = 6.35; ORP = -83.6 my; DO = 0.20 mg/L; and turbidity = 0.72 NTU. A total of approximately 9 liters was purged prior to sample collection with the intake at 13.5 ft below the TOC.
- Stabilization of water quality parameters was achieved and ground water sample GW-04 1700 hrs: (Sample #: JCW-004; A4A93) was collected from monitoring well MW-3. Ground water sample GW-04 was collected using a peristaltic pump with dedicated tubing and the final water quality parameters were as follows: Temperature = 1.25 °C; Specific Conductivity = 69 μ S/cm; pH = 6.67; ORP = -158.2 mv; DO = 4.40 mg/L; and turbidity = 0.93 NTU. A total of approximately 15 liters was purged prior to sample collection with the intake at 10.5 ft below the TOC. Ground water sample GW-04 was also collected for congener analysis.
- 1730 hrs: IDW purge water was containerized in 55-gallon steel drums and segregated based on well location (on or off the Jard property). Segregation is to aid in later IDW disposal, assuming wells from on the Jard property contain high concentrations of contaminants than those wells located off the Jard property. In addition, waste soil material and IDW Decon waste are also segregated to aid in later IDW disposal activities. START personnel secured IDW drums, secured the site and departed the Jard property.

3 April 2013 (Wednesday) - Soil/Source Sampling

Weather: Partly cloudy, high 30 °F

0700 hrs: START members Kelly, Hornok, Bitzas, Imbres, Robinson, and Jonathan Saylor arrived at the Jard property. In addition, performance evaluation samples PE-AA3325 (Sample #: JCW-014;

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CLP #: A4B03) and PE-AA2555 (Sample #: JCW-015; CLP#: A4B04) were collected for CLP Aroclor analysis.

0715 hrs: START HSC Kelly reviewed the site HASP and conducted a tailgate health and safety meeting for all on-site START personnel, including reviews of the physical hazards (uneven terrain, trips-slips-falls, heavy lifting, potential adverse weather conditions), chemical hazards (PCBs), Radiation (Not encountered previously but will be monitored) and biological hazards (ticks, poison ivy, snakes, animals). Personnel reviewed and signed the HASP documentation, as needed. START members completed calibration checks on air monitoring instrument; MultiRAE Plus, LEL, O₂, H₂S, CO, and PID meter. Background ambient readings: LEL = 0%; O₂ = 20.9%; H₂S = 0 ppm; CO = 0 ppm; and VOC = 0 ppm.

START Team established decontamination area and conduct decontamination of non-dedicated equipment. Non-dedicated equipment (augers, metal scoops, etc.) will be decontaminated after the collection of each sample, and prior to use for the collection of other samples.

0815 hrs: Soil/source sample SO-01A (Sample #: JCS-001) was collected with a hand auger at a depth of 0 to 8 inches bgs from the upper north-central portion of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.

0820 hrs: Soil/source sample SO-02A (Sample #: JCS-002) was collected with a hand auger at a depth of 0 to 6 inches bgs from the upper central portion of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.

0830 hrs: Soil/source sample SO-03A (Sample #: JCS-003) was collected with a hand auger at a depth of 0 to 6 inches bgs from the upper north-central portion of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.

In addition, soil/source sample SO-04A (Sample #: JCS-004) was collected with a hand auger at a depth of 0 to 12 inches bgs from the upper central portion of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.

0840 hrs: Soil/source sample SO-05A (Sample #: JCS-005) was collected with a hand auger at a depth of 0 to 8 inches bgs from the upper north-central portion of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.

In addition, soil/source sample SO-06A (Sample #: JCS-006) was collected with a hand auger at a depth of 0 to 6 inches bgs from the upper central portion of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.

0845 hrs: Soil/source sample SO-06B (Sample #: JCS-007) and soil/source field duplicate SO-100B (Sample #: JCS-065) were collected with a hand auger at a depth of 6 to 12 inches bgs from the upper central portion of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.

0855 hrs: Soil/source sample SO-07A (Sample #: JCS-008) was collected with a hand auger at a depth of 0 to 12 inches bgs from the upper north-central portion of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis. In addition, soil/source sample SO-08A (Sample #: JCS-009) was collected with a hand auger at a depth of 0 to 8 inches bgs from the upper north-central portion of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.

1010 hrs: Soil/source sample SO-09A (Sample #: JCS-027) was collected with a hand auger at a depth of 0 to 8 inches bgs from the upper west-central portion of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.

In addition, soil/source sample SO-10A (Sample #: JCS-010) was collected with a hand auger at a depth of 0 to 12 inches bgs from the upper central portion of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.

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- 1025 hrs: Soil/source sample SO-12A (Sample #: JCS-013) was collected with a hand auger at a depth of 0 to 6 inches bgs from the upper east-central portion of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1030 hrs: Soil/source sample SO-11A (Sample #: JCS-011) was collected with a hand auger at a depth of 0 to 18 inches bgs from the upper west-central portion of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1035 hrs: Soil/source sample SO-11B (Sample #: JCS-012) was collected with a hand auger at a depth of 18 to 42 inches bgs from the upper west-central portion of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis,
- 1040 hrs: Soil/source sample SO-14A (Sample #: JCS-015) was collected with a hand auger at a depth of 0 to 12 inches bgs from the upper east-central portion of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1050 hrs: Soil/source sample SO-16A (Sample #: JCS-017) was collected with a hand auger at a depth of 0 to 6 inches bgs from the upper south-central portion of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1055 hrs: Soil/source sample SO-16B (Sample #: JCS-018) was collected with a hand auger at a depth of 6 to 12 inches bgs from the upper south-central portion of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1100 hrs: Soil/source sample SO-13A (Sample #: JCS-014) was collected with a hand auger at a depth of 0 to 16 inches bgs from the upper western-central portion of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1106 hrs: Soil/source sample SO-18A (Sample #: JCS-020) was collected with a hand auger at a depth of 0 to 6 inches bgs from the upper southwestern portion of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1110 hrs: Soil/source sample SO-15A (Sample #: JCS-016) was collected with a hand auger at a depth of 0 to 18 inches bgs from the upper southwestern portion of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1123 hrs: Soil/source sample SO-18B (Sample #: JCS-021) was collected with a hand auger at a depth of 6 to 12 inches bgs from the upper southwestern portion of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1125 hrs: Soil/source sample SO-17A (Sample #: JCS-019) was collected with a hand auger at a depth of 0 to 12 inches bgs from the upper southwestern portion of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1130 hrs: Soil/source sample SO-19A (Sample #: JCS-022) was collected with a hand auger at a depth of 0 to 12 inches bgs from the upper central portion of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1143 hrs: Soil/source sample SO-20A (Sample #: JCS-023) was collected with a hand auger at a depth of 0 to 6 inches bgs from the upper southern portion of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1150 hrs: Soil/source sample SO-21A (Sample #: JCS-024) was collected with a hand auger at a depth of 0 to 12 inches bgs from the upper southern portion of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1155 hrs: Soil/source sample SO-22A (Sample #: JCS-025) was collected with a hand auger at a depth of 0 to 6 inches bgs from the upper southwestern portion of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- Soil/source sample SO-23A (Sample #: JCS-026) was collected with a hand auger at a depth of 1200 hrs: 0 to 3 inches bgs from the upper southwestern portion of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.

- 1215 hrs: START personnel continued to complete CLP documentation and to package ground water and rinsate blank samples for shipment to the CLP Laboratory located in Mountainside, New Jersey. START geologist Kelly continued to conduct classification of sample matrix materials using the modified Burmiester soil classification and to prepare sample aliquots for field screening.
- 1540 hrs: Equipment rinsate blank sample RB-02 (Sample #: JCW-016: CLP #: A4B05) was collected from a hand auger sampling equipment (augers, scoops, etc.) and is associated with soil/source sampling activities.
- 1630 hrs: START personnel completed sample shipment preparation, organized and packaged traffic reports. START member Bitzas left the site and proceeded to deliverer samples and paperwork to FedEx, located in Menands, New York for shipment. Below is a summary of the traffic reports (TR), Airbill numbers (AB), and samples sent to the CLP Organics Laboratory (Chemtech Consulting Group) for PCB Aroclor analysis:
 - TR #: 1-040313-081601-0001, Master AB #: 5141 2418 0581, four groundwater samples for PCB Aroclor analysis. These four samples were shipped as dangerous goods due to previous sampling results and field observations and were to be combined with samples shipped under TR #: 1-040313-083108-0002 AB #: 5141 2418 0559, to constitute a complete sample delivery group (SDG) with appropriate quality assurance/quality control (QA/QC) samples.
 - TR #: 1-040313-083108-0002 AB #: 5141 2418 0559, seven ground water samples including one field duplicate, and one MS/MSD; plus two rinsate blank, and two performance evaluation samples for PCB Aroclor analysis. Samples from this TR were to be combined with samples shipped under TR #: 1-040313-081601-0001, Master AB #: 5141 2418 0581, to form a complete SDG.

1700 hrs: START personnel secured IDW drums, secured the site and departed the Jard property.

4 April 2013 (Thursday) - Soil/Source Sampling

Weather: Sunny, 45 to 50 °F

- 0700 hrs: START members Kelly, Hornok, Bitzas, Imbres, Robinson, and Jonathan Saylor arrived at the Jard property.
- 0715 hrs: START HSC Kelly reviewed the site HASP and conducted a tailgate health and safety meeting for all on-site START personnel, including reviews of the physical hazards (uneven terrain, trips-slips-falls, heavy lifting, traffic concerns, potential adverse weather conditions), chemical hazards (PCBs), Radiation (Not encountered previously but will be monitored) and biological hazards (ticks, poison ivy, animals). Personnel reviewed and signed the HASP documentation, as needed. START members completed calibration checks on air monitoring instrument; MultiRAE Plus, LEL, O2, H2S, CO, and PID meter. Background ambient readings: LEL = 0%; $O_2 = 20.9\%$; $H_2S = 0$ ppm; CO = 0 ppm; and VOC = 0 ppm. START Team established decontamination area and conduct decontamination of non-

dedicated equipment. Non-dedicated equipment (augers, metal scoops, etc.) will be decontaminated after the collection of each sample, and prior to use for the collection of other samples.

Soil/source sample SO-24A (Sample #: JCS-078) was collected with a hand auger at a depth of 0800 hrs: 0 to 8 inches bgs from the drainage ditch located on the northwestern portion of the Jard property and later submitted for PCB field screening analysis.

In addition, soil/source sample SO-25A (Sample #: JCS-028) was collected with a hand auger at a depth of 0 to 12 inches bgs from the drainage ditch located on the western portion of the Jard property and later submitted for PCB field screening analysis.

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> Soil/source sample SO-50A (Sample #: JCS-066) was collected with a hand auger at a depth of 0 to 12 inches bgs from the area below the former transformer area located on the southern portion of the Jard property and later submitted for PCB field screening analysis.

0805 hrs: Soil/source sample SO-24B (Sample #: JCS-079) was collected with a hand auger at a depth of 8 to 24 inches bgs from the drainage ditch located on the northwestern portion of the Jard property and later submitted for PCB field screening analysis.

0810 hrs: Soil/source sample SO-25B (Sample #: JCS-029) was collected with a hand auger at a depth of 12 to 30 inches bgs from the drainage ditch located on the western portion of the Jard property and later submitted for PCB field screening analysis.

In addition, soil/source sample SO-24C (Sample #: JCS-080) was collected with a hand auger at a depth of 24 to 30 inches bgs from the drainage ditch located on the northwestern portion of the Jard property and later submitted for PCB field screening analysis.

Soil/source sample SO-50B (Sample #: JCS-067) was collected with a hand auger at a depth of 12 to 16 inches bgs from the area below the former transformer area located on the southern portion of the Jard property and later submitted for PCB field screening analysis.

0815 hrs: Soil/source sample SO-25C (Sample #: JCS-030) was collected with a hand auger at a depth of 30 to 48 inches bgs from the drainage ditch located on the western portion of the Jard property and later submitted for PCB field screening analysis.

Soil/source sample SO-51A (Sample #: JCS-068) was collected with a hand auger at a depth of 0818 hrs: 0 to 6 inches bgs from the area below the former transformer area located on the southern portion of the Jard property and later submitted for PCB field screening analysis.

Soil/source sample SO-26A (Sample #: JCS-031) was collected with a hand auger at a depth of 0 to 12 inches bgs from the drainage ditch located on the northwestern portion of the Jard property and later submitted for PCB field screening analysis.

0826 hrs: Soil/source sample SO-52A (Sample #: JCS-069) was collected with a hand auger at a depth of 0 to 4 inches bgs from the area below the former transformer area located on the southern portion of the Jard property and later submitted for PCB field screening analysis.

0830 hrs: Soil/source sample SO-27A (Sample #: JCS-036) was collected with a hand auger at a depth of 0 to 18 inches bgs from the drainage ditch located on the western portion of the Jard property and later submitted for PCB field screening analysis.

0833 hrs: Soil/source sample SO-26B (Sample #: JCS-032) was collected with a hand auger at a depth of 12 to 18 inches bgs from the drainage ditch located on the northwestern portion of the Jard property and later submitted for PCB field screening analysis.

0835 hrs: Soil/source sample SO-27B (Sample #: JCS-038) was collected with a hand auger at a depth of 18 to 24 inches bgs from the drainage ditch located on the western portion of the Jard property and later submitted for PCB field screening analysis.

Soil/source sample SO-26C (Sample #: JCS-033) was collected with a hand auger at a depth of 0836 hrs: 18 to 24 inches bgs from the drainage ditch located on the northwestern portion of the Jard property and later submitted for PCB field screening analysis.

0840 hrs: Soil/source sample SO-26D (Sample #: JCS-034) was collected with a hand auger at a depth of 24 to 36 inches bgs from the drainage ditch located on the northwestern portion of the Jard property and later submitted for PCB field screening analysis.

0845 hrs: Soil/source sample SO-29A (Sample #: JCS-040) was collected with a hand auger at a depth of , 0 to 12 inches bgs from the area located along the western boundary of the Jard property and later submitted for PCB field screening analysis.

Soil/source sample SO-26E (Sample #: JCS-035) was collected with a hand auger at a depth of 0850 hrs: 36 to 42 inches bgs from the drainage ditch located on the northwestern portion of the Jard property and later submitted for PCB field screening analysis.

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- 0900 hrs: Soil/source sample SO-31A (Sample #: JCS-043) was collected with a hand auger at a depth of 0 to 12 inches bgs from the area located along the western boundary of the Jard property and later submitted for PCB field screening analysis.
- 0905 hrs: Soil/source sample SO-28A (Sample #: JCS-039) was collected with a hand auger at a depth of 0 to 8 inches bgs from the area located along the western boundary of the Jard property and later submitted for PCB field screening analysis.

 In addition, soil/source sample SO-31B (Sample #: JCS-044) was collected with a hand auger at a depth of 12 to 24 inches bgs from the area located along the western boundary of the Jard
- property and later submitted for PCB field screening analysis.

 O920 hrs: Soil/source sample SO-30A (Sample #: JCS-041) was collected with a hand auger at a depth of 0 to 12 inches bgs from the area located along the southwestern boundary of the Jard property and later submitted for PCB field screening analysis.

 In addition, soil/source sample SO-33A (Sample #: JCS-081) was collected with a hand auger at a depth of 0 to 18 inches bgs from the area located along the northwestern boundary of the Jard property and later submitted for PCB field screening analysis.
- 0930 hrs: Soil/source sample SO-30B (Sample #: JCS-042) was collected with a hand auger at a depth of 12 to 24 inches bgs from the area located along the southwestern boundary of the Jard property and later submitted for PCB field screening analysis.

 In addition, soil/source sample SO-33B (Sample #: JCS-082) was collected with a hand auger at a depth of 18 to 30 inches bgs from the area located along the northwestern boundary of the Jard property and later submitted for PCB field screening analysis.
- 0935 hrs: Soil/source sample SO-33C (Sample #: JCS-083) was collected with a hand auger at a depth of 30 to 36 inches bgs from the area located along the northwestern boundary of the Jard property and later submitted for PCB field screening analysis.
- 0940 hrs: Soil/source sample SO-32A (Sample #: JCS-045) was collected with a hand auger at a depth of 0 to 12 inches bgs from the area located along the southwestern boundary of the Jard property and later submitted for PCB field screening analysis.
- 1035 hrs: Soil/source sample SO-35A (Sample #: JCS-047) was collected with a hand auger at a depth of 0 to 12 inches bgs from the southwestern slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1045 hrs: Soil/source sample SO-37A (Sample #: JCS-049) was collected with a hand auger at a depth of 0 to 6 inches bgs from the southwestern slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.

 In addition, soil/source sample SO-53A (Sample #: JCS-084) was collected with a hand auger at a depth of 0 to 12 inches bgs from the area below the former transformer area located on the
- 1055 hrs: Soil/source sample SO-39A (Sample #: JCS-051) was collected with a hand auger at a depth of 0 to 12 inches bgs from the southwestern slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.

 In addition, soil/source sample SO-54A (Sample #: JCS-085) was collected with a hand auger at a depth of 0 to 8 inches has from the cross helder the former transformer and least the state of the same and the state of the same and the state of the same and t
 - at a depth of 0 to 8 inches bgs from the area below the former transformer area located on the southern portion of the Jard property and later submitted for PCB field screening analysis.

southern portion of the Jard property and later submitted for PCB field screening analysis.

1100 hrs: Soil/source sample SO-39B (Sample #: JCS-052) was collected with a hand auger at a depth of 12 to 24 inches bgs from the southwestern slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.

START geologist Kelly continued to conduct classification of sample matrix materials using the modified Burmiester soil classification and to prepare sample aliquots for field screening.

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- 1110 hrs: Soil/source sample SO-41A (Sample #: JCS-054) was collected with a hand auger at a depth of 0 to 8 inches bgs from the western slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1120 hrs: Soil/source sample SO-41B (Sample #: JCS-055) was collected with a hand auger at a depth of 8 to 18 inches bgs from the western slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1125 hrs: Soil/source sample SO-41C (Sample #: JCS-056) was collected with a hand auger at a depth of 18 to 30 inches bgs from the western slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1145 hrs: Soil/source sample SO-34A (Sample #: JCS-046) was collected with a hand auger at a depth of 0 to 12 inches bgs from the upper northeastern portion of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis. In addition, soil/source sample SO-43A (Sample #: JCS-058) was collected with a hand auger at a depth of 0 to 12 inches bgs from the southwestern toe slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1150 hrs: Soil/source sample SO-45A (Sample #: JCS-060) was collected with a hand auger at a depth of 0 to 18 inches bgs from the western toe slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1210 hrs: Soil/source sample SO-47A (Sample #: JCS-062) was collected with a hand auger at a depth of 0 to 6 inches bgs from the western slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1210 hrs: START Member Hornok contacted and discussed sampling progress with COR Bosworth. Discussed number of samples collected to date, groundwater well sampling status, difficulties source sampling to depth on the upper portion of the source pile, source areas along western property boundary, and planned field screening and sampling activities. Scott Clifford (EPA Chemist) will be on site on Monday (4/8/13).
- Soil/source sample SO-38A (Sample #: JCS-050) was collected with a hand auger at a depth of 1225 hrs: 0 to 8 inches bgs from the upper northern portion of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1230 hrs: Soil/source sample SO-36A (Sample #: JCS-048) was collected with a hand auger at a depth of 0 to 12 inches bgs from the upper northern portion of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis. In addition, soil/source sample SO-49A (Sample #: JCS-064) was collected with a plastic scoop at a depth of 0 to 3 inches bgs from the western slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1235 hrs: Soil/source sample SO-55A (Sample #: JCS-070) was collected with a plastic scoop at a depth of 0 to 4 inches bgs from the western slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1350 hrs: Soil/source sample SO-56A (Sample #: JCS-071) was collected with a hand auger at a depth of 0 to 12 inches bgs from the western toe slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1405 hrs: Soil/source sample SO-57A (Sample #: JCS-072) was collected with a hand auger at a depth of 0 to 6 inches from the western toe slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1415 hrs: Soil/source sample SO-40A (Sample #: JCS-053) was collected with a hand auger at a depth of 0 to 8 inches bgs from the upper northwestern portion of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.

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- 1420 hrs: Soil/source sample SO-42A (Sample #: JCS-057) was collected with a hand auger at a depth of 0 to 12 inches bgs from the northern slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1425 hrs: Soil/source sample SO-59A (Sample #: JCS-074) was collected with a metal scoop at a depth of 0 to 4 inches bgs from the western slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1430 hrs: Soil/source sample SO-58A (Sample #: JCS-073) was collected with a metal scoop at a depth of 0 to 2 inches bgs from the western slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1435 hrs: Soil/source sample SO-60A (Sample #: JCS-075) was collected with a hand auger at a depth of 0 to 12 inches bgs from the western slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1438 hrs: Soil/source sample SO-46A (Sample #: JCS-061) was collected with a hand auger at a depth of 0 to 8 inches from the northern slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1440 hrs: Soil/source sample SO-44A (Sample #: JCS-059) was collected with a hand auger at a depth of 0 to 6 inches bgs from the northern slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1505 hrs: Soil/source sample SO-61A (Sample #: JCS-182) was collected with a hand auger at a depth of 0 to 12 inches from the western slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1515 hrs: Soil/source sample SO-63A (Sample #: JCS-077) was collected with a hand auger at a depth of 0 to 8 inches bgs from the western slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1520 hrs: Soil/source sample SO-62A (Sample #: JCS-076) was collected with a hand auger at a depth of 0 to 12 inches from the northern slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.

 In addition, soil/source sample SO-64A (Sample #: JCS-183) was collected with a hand auger at a depth of 0 to 4 inches from the northern slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1630 hrs: Soil/source sample SO-48A (Sample #: JCS-063) was collected with a plastic scoop at a depth of 0 to 3 inches bgs from the western slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1700 hrs: Equipment rinsate blank sample RB-03 (Sample #: JCW-017: CLP #: A4B06) was collected from hand auger sampling equipment (augers, scoops, etc.) associated with soil/source sampling activities.
- 1705 hrs: Equipment rinsate blank sample RB-04 (Sample #: JCW-018: CLP #: A4B07) was collected from hand auger sampling equipment (augers, scoops, etc.) associated with soil/source sampling activities.
- 1730 hrs: START personnel secured IDW drums, secured the site and departed the Jard property.

5 April 2013 (Friday) - Soil/Source Sampling

Weather: Partly cloudy, low 50 °F

- 0730 hrs: START members Kelly, Hornok, Bitzas, Imbres, Robinson, and Jonathan Saylor arrived at the Jard property. COR Bosworth also arrived on site for meeting with EPA and town representatives.
- 0745 hrs: START HSC Kelly reviewed the site HASP and conducted a tailgate health and safety meeting for all on-site START personnel, including reviews of the physical hazards (uneven

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terrain, trips-slips-falls, heavy lifting, traffic concerns, potential adverse weather conditions), chemical hazards (PCBs), Radiation (Not encountered previously but will be monitored) and biological hazards (ticks, poison ivy, animals). Personnel reviewed and signed the HASP documentation, as needed. START members completed calibration checks on air monitoring instrument; MultiRAE Plus, LEL, O2, H2S, CO, and PID meter. Background ambient readings: LEL = 0%; $O_2 = 20.9\%$; $H_2S = 0$ ppm; CO = 0 ppm; and VOC = 0 ppm.

START Team established decontamination area and conduct decontamination of non-dedicated equipment. Non-dedicated equipment (augers, metal scoops, etc.) will be decontaminated after the collection of each sample, and prior to use for the collection of other samples.

START embers Kelly and Hornok held discussions with COR Bosworth regarding current status of sampling activities, Flex-viewer Data Management Resource, and groundwater shipment/delivery.

0845 hrs: Soil/source sample SO-65A (Sample #: JCS-086) was collected with a hand auger at a depth of 0 to 8 inches from the western slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.

START geologist Kelly continued to conduct classification of sample matrix materials using the modified Burmiester soil classification and to prepare sample aliquots for field screening.

0855 hrs: Soil/source sample SO-66A (Sample #: JCS-087) was collected with a plastic scoop at a depth of 0 to 3 inches bgs from the northern slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.

0900 hrs: Soil/source sample SO-67A (Sample #: JCS-088) was collected with a hand auger at a depth of 0 to 6 inches bgs from the western slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.

In addition, soil/source sample SO-68A (Sample #: JCS-089) was collected with a hand auger at a depth of 0 to 12 inches bgs from the northern slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.

0915 hrs: Soil/source sample SO-70A (Sample #: JCS-093) was collected with a hand auger at a depth of 0 to 12 inches bgs from the northern slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.

In addition, soil/source sample SO-72A (Sample #: JCS-095) was collected with a hand auger at a depth of 0 to 10 inches bgs from the drainage area at the base of the northeastern corner of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.

0920 hrs: Soil/source sample SO-69A (Sample #: JCS-090) was collected with a hand auger at a depth of 0 to 12 inches bgs from the western slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.

In addition, soil/source sample SO-72B (Sample #: JCS-096) was collected with a hand auger

at a depth of 10 to 20 inches bgs from the drainage area at the base of the northeastern corner of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.

0925 hrs: Soil/source sample SO-69B (Sample #: JCS-091) was collected with a hand auger at a depth of 12 to 36 inches bgs from the western slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.

0930 hrs: Soil/source sample SO-69C (Sample #: JCS-092) was collected with a hand auger at a depth of 36 to 48 inches bgs from the western slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.

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- 0945 hrs: Soil/source sample SO-76A (Sample #: JCS-102) was collected with a hand auger at a depth of 0 to 14 inches bgs from the eastern slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- O950 hrs: Soil/source sample SO-71A (Sample #: JCS-094) was collected with a hand auger at a depth of 0 to 24 inches bgs from the lower eastern slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.

 In addition, soil/source sample SO-74A (Sample #: JCS-098) was collected with a hand auger at a depth of 0 to 12 inches bgs from the eastern slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1000 hrs: Soil/source sample SO-74B (Sample #: JCS-099) was collected with a hand auger at a depth of 12 to 30 inches bgs from the eastern slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1005 hrs: Soil/source sample SO-73A (Sample #: JCS-097) was collected with a hand auger at a depth of 0 to 28 inches bgs from the eastern slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1010 hrs: Soil/source sample SO-75A (Sample #: JCS-100) was collected with a hand auger at a depth of 0 to 12 inches bgs from the eastern slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1020 hrs: Soil/source sample SO-77A (Sample #: JCS-101) was collected with a hand auger at a depth of 0 to 18 inches bgs from the eastern slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1100 hrs: VT DEC ANR Wetland Specialist Julie Foley arrived on-site to discuss wetland areas around the site with START personnel. Wetland Specialist Foley provide START with previously completed wetland delineation map of wetlands to west of Park Street. START members Hornok, Bitzas and Kelly reviewed available wetland references/maps with Specialist Foley.
- 1130 hrs: Equipment rinsate blank sample RB-05 (Sample #: JCW-019: CLP #: A4B08) was collected from hand auger sampling equipment (augers, scoops, etc.) associated with soil/source sampling activities.

 COR Bosworth returned from meeting with Section Chief Meghan Cassidy to review
 - COR Bosworth returned from meeting with Section Chief Meghan Cassidy to review operations.
- 1140 hrs: COR Bosworth and Section Chief Cassidy departed site.

 Wetland Specialist Foley accompanied START members Kelly and Bitzas on reconnaissance of wetland areas to the west of Park Street and background wetland area along Bowen Road north of the Jard property.
- 1200 hrs: START personnel completed sample shipment preparation, organized and packaged traffic reports. START members Robinson and Saylor proceeded to deliverer samples and paperwork to FedEx, located in Brattleboro, VT for shipment. Below is a summary of the TRs AB numbers and samples sent to the CLP Organics Laboratory (Chemtech Consulting Group) for PCB Aroclor analysis:
 - TR #: 1-040513-111321-0003, Master AB #: 5141 2418 0662, four aqueous equipment rinsate blank samples for PCB Aroclor analysis.
- 1215 hrs: Wetland Specialist Foley confirmed that wetland delineation map of wetlands to west of Park Street is generally the same as current conditions based on reconnaissance and review of area. Foley also noted that the proposed background area to the north along Bowen Road, contained similar types of wetland (PEM, PSS, POW, etc.). Wetland Specialist Foley left the site to attend a local meeting/inspection.
 - START member Kelly spoke START PM McDuffee regarding leaving the Geoprobe Truck secured on the VTrans property for the weekend in an effort to be more sustainable/"Green". PM McDuffee agreed to plan.

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START members Hornok and Kelly spoke with a VTrans representative at the Bowen Road facility regarding leaving the Geoprobe Truck secured on the VTDOT property for the weekend in an effort to be more sustainable/"Green". The VTrans representative agreed and explained there security for the weekend hours and where it would be best to park the vehicle. Informed PM McDuffee agreed to plan.

1230 hrs: Remaining START personnel secured IDW drums, secured the site and departed the Jard property for the START office located in Andover, MA.

8 April 2013 (Monday) – Soil/Source Sampling

Weather: Partly sunny, high 50 to low 60 °F

- 1030 hrs: START members Kelly, Hornok, Bitzas, Eric Ackerman, Chris Dupree, Robinson, Jonathan Saylor, and Robert Sharp arrived at the Jard property. START Member Hornok picked up Geoprobe truck from VT DOT facility along Bowen Road. In addition, EPA SAM Martha Bosworth had already arrived on-site.
- 1045 hrs: START HSC Kelly reviewed the site HASP and conducted a tailgate health and safety meeting for all on-site START personnel, including reviews of the physical hazards (uneven terrain, trips-slips-falls, heavy lifting, Geoprobe Work concerns, potential adverse weather conditions), chemical hazards (PCBs), Radiation (Not encountered previously but will be monitored) and biological hazards (ticks, poison ivy, dogs, animals). Personnel reviewed and signed the HASP documentation, as needed. START members completed calibration checks on air monitoring instrument; MultiRAE Plus, LEL, O2, H2S, CO, and PID meter. Background ambient readings: LEL = 0%; O2 = 20.9%; H2S = 0 ppm; CO = 0 ppm; and VOC = 0 ppm.

START Team established decontamination area and conduct decontamination of non-dedicated equipment. Non-dedicated equipment (Geoprobe equipment, augers, metal scoops, etc.) will be decontaminated after the collection of each sample, and prior to use for the collection of other samples.

- 1100 hrs: Soil boring activities began at soil boring location SB-05 located on the south-eastern area of the former building footprint in an area previously excavated during an EPA Removal action. In addition, EPA Office of Environmental Measurement and Evaluation (OEME) Mobile Laboratory chemist Scott Clifford arrived on-site to perform PCB field screening analysis. Sample aliquots for PCB field screening, collected to date between 1 April and 5 April, were transferred to EPA chemist Clifford for processing and PCB field screening analyses. START geologist Kelly continued to conduct classification of sample matrix materials using
- 1130 hrs: Soil/source sample SB-05A (Sample #: JCS-137) was collected using a Geoprobe macrocore from a depth of 2.1 to 4 feet bgs from soil boring SB-05 and later submitted for PCB field screening analysis.

the modified Burmiester soil classification and to prepare sample aliquots for field screening.

- 1135 hrs: Soil/source sample SB-05B (Sample #: JCS-138) was collected using a Geoprobe macrocore from a depth of 5.3 to 5.6 feet bgs from soil boring SB-05 and later submitted for PCB field screening analysis.
- 1140 hrs: START personnel completed soil boring activities at location SB-05. Soil boring SB-05 was completed to a depth of 6 feet bgs due to refusal. Team backfilled hole with sand and bentonite and relocated to next location. Boring activities began at soil boring location SB-07 located on the south-eastern area of the former building footprint in an area previously excavated during an EPA Removal action.

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- 1145 hrs: Soil/source sample SB-07A (Sample #: JCS-139) was collected using a Geoprobe macrocore from a depth of 2 to 2.9 feet bgs from soil boring SB-07 and later submitted for PCB field screening analysis.
- 1155 hrs: START personnel completed soil boring activities at location SB-07. Soil boring SB-07 was completed to a depth of 4 feet bgs due to refusal. Team backfilled hole with sand and bentonite and relocated to next location. Boring activities began at soil boring location SB-09 located on the south-eastern area of the former building footprint in an area previously excavated during an EPA Removal action. In addition, boring activities began at soil boring location SB-04 located beneath the former transformer area located on the southern portion of the Jard property.
- 1210 hrs: Soil/source sample SB-09A (Sample #: JCS-140) was collected using a Geoprobe macrocore from a depth of 2.9 to 3.4 feet bgs from soil boring SB-09 and later submitted for PCB field screening analysis.

In addition, soil/source sample SB-09B (Sample #: JCS-141) was collected using a Geoprobe macrocore from a depth of 3.4 to 4 feet bgs from soil boring SB-09 and later submitted for PCB field screening analysis.

- 1215 hrs: START Member Kelly decided to collect an additional sample from upper core section to obtain analyses throughout the core section. Soil/source sample SB-09C (Sample #: JCS-142) was collected using a Geoprobe macrocore from a depth of 1.7 to 2.9 feet bgs from soil boring SB-09 and later submitted for PCB field screening analysis.
- 1220 hrs: Soil/source sample SB-04A (Sample #: JCS-145) was collected using a Geoprobe macrocore from a depth of 1.1 to 1.3 feet bgs from soil boring SB-04 and later submitted for PCB field screening analysis.

 In addition, soil/source sample SB-04B (Sample #: JCS-146) was collected using a Geoprobe macrocore from a depth of 1.3 to 2 feet bgs from soil boring SB-04 and later submitted for PCB field screening analysis.
- 1230 hrs: START personnel completed soil boring activities at location SB-04. Soil boring SB-04 was completed to a depth of 2 feet bgs due to refusal. Team backfilled hole with sand and bentonite and relocated to next location. Boring activities began at soil boring location SB-06 located on the south-western area of the former building footprint in an area previously excavated during an EPA Removal action.
- 1235 hrs: Soil/source sample SB-06A (Sample #: JCS-147) was collected using a Geoprobe macrocore from a depth of 2.3 to 3.3 feet bgs from soil boring SB-06 and later submitted for PCB field screening analysis.

 In addition, soil/source sample SB-06B (Sample #: JCS-148) was collected using a Geoprobe macrocore from a depth of 3.3 to 4 feet bgs from soil boring SB-06 and later submitted for PCB field screening analysis.
- 1240 hrs: After reviewing the entire core, START Member Kelly decided to collect an additional sample from upper core section to obtain analyses throughout the core to represent various depths. Soil/source sample SB-06C (Sample #: JCS-149) was collected using a Geoprobe macrocore from a depth of 1.5 to 2.3 feet bgs from soil boring SB-06 and later submitted for PCB field screening analysis.
- 1245 hrs: START personnel completed soil boring activities at location SB-06. Soil boring SB-06 was completed to a depth of 4 feet bgs due to refusal. Team backfilled hole with sand and bentonite and relocated to next location.
- 1250 hrs: Soil/source sample SB-09D (Sample #: JCS-143) was collected using a Geoprobe macrocore from a depth of 7.4 to 8 feet bgs from soil boring SB-09 and later submitted for PCB field screening analysis.

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- 1255 hrs: Soil/source sample SB-09E (Sample #: JCS-144) was collected using a Geoprobe macrocore from a depth of 10.1 to 11 feet bgs from soil boring SB-09 and later submitted for PCB field screening analysis.
- 1300 hrs: START personnel completed soil boring activities at location SB-09. Soil boring SB-09 was completed to a depth of 11 feet bgs. Team backfilled hole with sand and bentonite and relocated to next location. Boring activities began at soil boring location SB-08 located on the south-eastern area of the former building footprint in an area previously excavated during an EPA Removal action.
- 1345 hrs: Soil/source sample SB-08A (Sample #: JCS-150) was collected using a Geoprobe macrocore from a depth of 1.2 to 4 feet bgs from soil boring SB-08 and later submitted for PCB field screening analysis.
- 1350 hrs: Soil/source sample SB-08B (Sample #: JCS-151) was collected using a Geoprobe macrocore from a depth of 6.9 to 8 feet bgs from soil boring SB-08 and later submitted for PCB field screening analysis.
- 1400 hrs: Soil/source sample SB-08C (Sample #: JCS-152) was collected using a Geoprobe macrocore from a depth of 8.7 to 10 feet bgs from soil boring SB-08 and later submitted for PCB field screening analysis.

 In addition, soil/source sample SB-08D (Sample #: JCS-153) was collected using a Geoprobe

macrocore from a depth of 10 to 11 feet bgs from soil boring SB-08 and later submitted for PCB field screening analysis.

- 1410 hrs: START personnel completed soil boring activities at location SB-08. Soil boring SB-08 was completed to a depth of 11 feet bgs due to equipment issues (stuck). Team did not backfilled hole, will work to retrieve equipment later and backfill with sand and bentonite; relocated to next location. Boring activities began at soil boring location SB-10 located on the eastern edge of the former building footprint in an area previously excavated during an EPA Removal action.
 - In addition, soil/source sample SO-81A (Sample #: JCS-106) was collected with a hand auger at a depth of 0 to 18 inches bgs from an area along the northwestern boundary of the Jard property and later submitted for PCB field screening analysis.
- 1415 hrs: Soil/source sample SO-80A (Sample #: JCS-103) was collected with a hand auger at a depth of 0 to 18 inches bgs from an area along the northwestern boundary of the Jard property and later submitted for PCB field screening analysis.
 - In addition, soil/source sample SO-82A (Sample #: JCS-109) was collected with a hand auger at a depth of 0 to 18 inches bgs from an area along the northwestern boundary of the Jard property and later submitted for PCB field screening analysis.
- 1420 hrs: Soil/source sample SO-81B (Sample #: JCS-107) was collected with a hand auger at a depth of 18 to 36 inches bgs from an area along the northwestern boundary of the Jard property and later submitted for PCB field screening analysis.
- 1425 hrs: Soil/source sample SO-80B (Sample #: JCS-104) was collected with a hand auger at a depth of 18 to 30 inches bgs from an area along the northwestern boundary of the Jard property and later submitted for PCB field screening analysis.

In addition, soil/source sample SO-81C (Sample #: JCS-108) was collected with a hand auger at a depth of 36 to 54 inches bgs from an area along the northwestern boundary of the Jard property and later submitted for PCB field screening analysis.

In addition, soil/source sample SO-82B (Sample #: JCS-110) was collected with a hand auger at a depth of 18 to 30 inches bgs from an area along the northwestern boundary of the Jard property and later submitted for PCB field screening analysis.

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- 1435 hrs: Soil/source sample SO-80C (Sample #: JCS-105) was collected with a hand auger at a depth of 30 to 40 inches bgs from an area along the northwestern boundary of the Jard property and later submitted for PCB field screening analysis.
- 1445 hrs: Soil/source sample SO-83A (Sample #: JCS-111) was collected with a hand auger at a depth of 0 to 12 inches bgs from an area along the northern boundary of the Jard property and later submitted for PCB field screening analysis. In addition, soil/source sample SO-84A (Sample #: JCS-112) was collected with a hand auger

at a depth of 0 to 18 inches bgs from an area along the northern boundary of the Jard property and later submitted for PCB field screening analysis.

- 1450 hrs: Soil/source sample SO-85A (Sample #: JCS-114) was collected with a hand auger at a depth of 0 to 12 inches bgs from an area along the northern boundary of the Jard property and later submitted for PCB field screening analysis.
- 1455 hrs: Soil/source sample SO-84B (Sample #: JCS-113) and soil/source sample field duplicate SO-102B (Sample #: JCS-207) were collected with a hand auger at a depth of 18 to 36 inches bgs from an area along the northern boundary of the Jard property and later submitted for PCB field screening analysis.
- 1500 hrs: Soil/source sample SO-85B (Sample #: JCS-115) and soil/source sample field duplicate SO-101B (Sample #: JCS-206) were collected with a hand auger at a depth of 12 to 24 inches bgs from an area along the northern boundary of the Jard property and later submitted for PCB field screening analysis.
- 1510 hrs: Soil/source sample SO-85C (Sample #: JCS-116) was collected with a hand auger at a depth of 24 to 30 inches from an area along the northern boundary of the Jard property and later submitted for PCB field screening analysis. In addition, soil/source sample SO-86A (Sample #: JCS-117) was collected with a hand auger

at a depth of 0 to 18 inches bgs from an area along the northern boundary of the Jard property and later submitted for PCB field screening analysis.

Soil/source sample SO-87A (Sample #: JCS-118) was collected with a hand auger at a depth of 0 to 18 inches bgs from an area along the northern boundary of the Jard property and later submitted for PCB field screening analysis.

- 1520 hrs: Soil/source sample SO-87B (Sample #: JCS-119) was collected with a hand auger at a depth of 18 to 36 inches bgs from an area along the northern boundary of the Jard property and later submitted for PCB field screening analysis.
- 1530 hrs: Soil/source sample SO-88A (Sample #: JCS-120) was collected with a hand auger at a depth of 0 to 18 inches bgs from an area along the eastern edge of the building footprint on the Jard property and later submitted for PCB field screening analysis.

In addition, soil/source sample SO-89A (Sample #: JCS-122) was collected with a hand auger at a depth of 0 to 12 inches bgs from the northeastern corner of the Jard property and later submitted for PCB field screening analysis.

- 1535 hrs: Soil/source sample SO-88B (Sample #: JCS-121) was collected with a hand auger at a depth of 18 to 30 inches bgs from along the eastern edge of the building footprint on the Jard property and later submitted for PCB field screening analysis.
- 1540 hrs: Soil/source sample SO-89B (Sample #: JCS-123) was collected with a hand auger at a depth of 12 to 24 inches bgs from the northeastern corner of the Jard property and later submitted for PCB field screening analysis.

In addition, soil/source sample SO-90A (Sample #: JCS-124) was collected with a hand auger at a depth of 0 to 18 inches bgs from along the eastern edge of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.

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1545 hrs: Soil/source sample SO-91A (Sample #: JCS-125) was collected with a hand auger at a depth of 0 to 10 inches from the northeastern corner of the Jard property and later submitted for PCB field screening analysis.

In addition, soil/source sample SB-10A (Sample #: JCS-154) was collected using a Geoprobe macrocore from a depth of 0.4 to 1.3 feet bgs from soil boring SB-10 and later submitted for

PCB field screening analysis.

START personnel completed soil boring activities at location SB-10. Soil boring SB-10 was completed to a depth of 2 feet bgs due to refusal. Team backfilled sample hole with sand and 1600 hrs: Soil/source sample SO-92A (Sample #: JCS-126) was collected with a hand auger at a depth of

0 to 8 inches from the northeastern corner of the Jard property and later submitted for PCB

field screening analysis.

1615 hrs: Soil/source sample SO-93A (Sample #: JCS-127) was collected with a plastic scoop at a depth of 0 to 2 inches bgs from an area along the northeastern edge of the building footprint on the Jard property and later submitted for PCB field screening analysis.

1635 hrs: Equipment rinsate blank sample RB-06 (Sample #: JCW-020: CLP #: A4B09) was collected from hand auger sampling equipment (augers, scoops, etc.) associated with soil/source sampling activities.

1640 hrs: Equipment rinsate blank sample RB-07 (Sample #: JCW-021: CLP #: A4B10) was collected from the Geoprobe macrocore system sampling equipment and is associated with soil/source sampling activities.

1700 hrs: START personnel secured IDW drums, secured the site and departed the Jard property.

9 April 2013 (Tuesday) - Soil/Source and Surface Soil Sampling

Weather: Cloudy, high 50 to low 60 °F

0700 hrs: START members Kelly, Hornok, Bitzas, Ackerman, Dupree, Robinson, Saylor, and Sharp arrived at the Jard property. EPA SAM Martha Bosworth had previously arrived on-site. In addition, Chemist Clifford also arrived on-site.

0715 hrs: START HSC Kelly reviewed the site HASP and conducted a tailgate health and safety meeting for all on-site START personnel, including reviews of the physical hazards (uneven terrain, trips-slips-falls, heavy lifting, traffic, potential adverse weather conditions), chemical hazards (PCBs), Radiation (Not encountered previously but will be monitored) and biological hazards (ticks, poison ivy, animals). Personnel reviewed and signed the HASP documentation, as needed. START members completed calibration checks on air monitoring instrument; MultiRAE Plus, LEL, O2, H2S, CO, and PID meter. Background ambient readings: LEL = 0%; $O_2 = 20.9$ %; $H_2S = 0$ ppm; CO = 0 ppm; and VOC = 0 ppm.

START Team established decontamination area and conduct decontamination of nondedicated equipment. Non-dedicated equipment (augers, metal scoops, etc.) will be decontaminated after the collection of each sample, and prior to use for the collection of other

0800 hrs: START members Kelly, Robinson, and Scesny began marking sample locations and documenting property features on the Park Street residential properties.

0810 hrs: Soil/source sample SO-95A (Sample #: JCS-185) was collected with a hand auger at a depth of 0 to 8 inches bgs from an area along the northwestern edge of the building footprint on the Jard property and later submitted for PCB field screening analysis.

0815 hrs: Soil/source sample SO-94A (Sample #: JCS-184) was collected with a hand auger at a depth of 0 to 12 inches bgs from an area along the northwestern edge of the building footprint on the Jard property and later submitted for PCB field screening analysis.

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CHAIN OF CUSTODY RECORD

SDA# A4B44 A4B24

No: 1-041713-114538-0006

Lab: ChemTech Consulting Group Lab Contact: Divya Mehta Lab Phone: 908-789-8900

PateShipped: 4/18/2013	VILLETTYNIX		
arrierName: FedEx	TIME	Case #: 43392	
irbillNo: 5141 2418 0938		Cooler #: DG Cans	
	W.		

Organic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Inorganic Sample #	For Lab Use
A4B17	Soil/ START	Grab	CLP PCBs(21)	537 (4 C) (1)	JCS-130	04/01/2013 14:30	Sample #	Only
A4B18	Soil/ START	Grab	CLP PCBs(21)	538 (4 C) (1)	JCS-136	04/01/2013 14:30		
A4B19	Soil/ START	Grab	CLP PCBs(21)	539 (4 C) (1)	JCS-138			
A4B20	Soil/ START	Grab	CLP PCBs(21)	540 (4 C) (1)		04/08/2013 11:35		
A4B21	Soil/ START	Grab	CLP PCBs(21)	541 (4 C) (1)	JCS-148	04/08/2013 12:35		
A4B22	Soil/ START	Grab	CLP PCBs(21)		JCS-153	04/08/2013 14:00		
A4B23	Soil/ START	Grab	CLP PCBs(21)	542 (4 C) (1)	JCS-143	04/08/2013 12:50		46
A4B30	Soil/ START	Grab	CLP PCBs(21)	543 (4 C) (1)	JCS-006	04/03/2013 08:40		
A4B31	Soil/ START	Grab	CLP PCBs(21)	565 (4 C) (1)	JCS-046	04/04/2013 11:45		,
A4B32 ·	Soil/ START	Grab	CLP PCBs(21)	567 (4 C) (1)	JCS-048	04/04/2013 12:30		
A4B34 -	Soil/ START	Grab	CLP PCBs(21)	569 (4 C) (1)	JCS-061	04/04/2013 14:38		
	3011/31/4(1	Grab	CLP PCBs(21)	573 (4 C) (1)	JCS-183	04/04/2013 15:20		
								<u> </u>
				4				

Special Instructions: Samples shipped as dangerous goods due to elevated PCB concentrations noted in field screening analysis. Please combine these samples with samples shipped under Fedex Airbill # 5141 2418 0743, COC #: 1-041713-115310-0007 to create one SDG.

Shipment for Case Complete? N Samples Transferred From Chain of Custody #

Analysis Key: CLP PCBs=SOM01.2 Aroclors

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
Eamples	Aughko	4/18/13	141 2418 0938	4/18/13	1340	The second secon	group van Directive (Idan - Ingerior) (Idan - In	Constitution of Colors on Constitution of Colors of Colors on Colors of Colors on Colors of Colors on Colors of Colors on Colo			
	or enterior later to the class of the class	and the first and the control of the second	mercopany disk in China Camarana capataman was alam da ang ang ang ang ang ang ang ang ang an	are the colour and the colour and the	The state of the s	TO STATE OF STATE AND STAT	Congle construction of the	-	Composition of the Composition o		
Commencer	CONTRACTOR OF CONTRACTOR CONTRACT			MARINE POR MARINE M	CAMPANIA FERRENCE MENTAL MARINE	Samples	Airbill# 5141 248 8938	_	JOHN TONGLO	4/19/13	935

AUB34 is least sample of this sDa #

Page 1 of 1

USEPA CLP Organics COC (LAB COPY)

DateShipped: 4/17/2013 CarrierName: FedEx AirbillNo: 5141 2418 0743



CHAIN OF CUSTODY RECORD

Case #: 43392 Cooler #: MM1276 No: 1-041713-115310-0007

Lab: ChemTech Consulting Group Lab Contact: Divya Mehta Lab Phone: 908-789-8900

Organic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Inorganic Sample #	For Lab Use Only
A4B24	Soil/ START	Grab	CLP PCBs(21)	544 (4 C) (1)	JCS-008	04/03/2013 08:55	14	
A4B25	Soil/ START	Grab	CLP PCBs(21)	553 (4 C) (1)	JCS-015	04/03/2013 10:40		
A4B26	Soil/ START	Grab	CLP PCBs(21)	556 (4 C) (1)	JCS-475	04/03/2013 10:40		
A4B27	Soil/ START	Grab	CLP PCBs(21)	558 (4 C) (1)	JCS-024	04/03/2013 11:50		
A4B28	Soil/ START	Grab	CLP PCBs(21)	560 (4 C) (1)	JCS-025	04/03/2013 11:55		
A4B29	Soil/ START	Grab	CLP PCBs(21), CLP PCBs(21)	562 (4 C), 563 (4 C) (2)	JCS-026	04/03/2013 12:00		
A4B33	Soil/ START	Grab	CLP PCBs(21)	571 (4 C) (1)	JCS-076	04/04/2013 15:20		-
A4B35	Soil/ START	Grab	CLP PCBs(21)	575 (4 C) (1)	JCS-086	04/05/2013 08:45		
A4B56 PE	Soil/ START	Grab	CLP PCBs(21)	620 (4 C) (1)	JCS-478	04/17/2013 07:00		
A4B57 P 6	Soil/ START	Grab	CLP PCBs(21)	621 (4 C) (1)	JCS-479	04/17/2013 07:00		
								·
					-	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		-
	•							

Sample(s) to be used for Lab QC: A4B29 - Special Instructions: Please combine with samples shipped under FedEx Airbill #: 5141 2418 0710, COC #: 1-041713-114538-0006 to form one sample delivery group.

Shipment for Case Complete? N
Samples Transferred From Chain of Custody #

Analysis Key: CLP PCBs=SOM01.2 Aroclors

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
Sampus	G formal	4(1713	Arbin Vo.	4/17/13	1300					The state of the s	
								A STATE OF THE PROPERTY OF THE			
										5.	
An annual section of the section of				-		Souphs	2141 3418 0313 Hrish #		Googe Negron	4)18/13	945

Temp: 500

DG/ESAT

LABORATORY NAME:

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET FORM DC-2

CHEMTECH CONSULTING GROUP, INC.

Jard Company Weston

	CITY / STATE : MC	UNTAINSIDE, NJ		жители	J 15 15 15 11	\$ 5
	CASE NO: 43392	SDG NO : A4B24			MAY 0 9	2013
5	SDG NOs TO FOLLOW	N/A N/A		_		
1	MOD. REF. NO. :	N/A		N/A B	<u> </u>	
	CONTRACT NO:	EPW11030		Contract of the Contract of th		
5	SOW NO :	SOM 01.2	¥		MAY 09	2043
All	documents delivered in t	he Complete SDG File (CSF) must be original doct		•		
			FROM	AGE NOS: TO	CH LAB	USEPA/1/25
	Inventory Sheet (DC-2) (Do not number)	William Company or Company or Company	***************************************		
•	SDG Narrative		1	8	~	
i.	SDG Cover Sheet/Traffic	Report	9	11		
	Trace Volatiles Data a. QC Summary					
	-	toring Compound Recovery (Form II VOA-1	NA	NA		1/
		rix Spike Duplicate Recover (Form III VOA)		IVA		
	(if requested by l		<u>NA</u>	NA		
	Method Blank Su	mmary (Form IV VOA)	NA	NA		
	GC/MS Instrume	nt Performance Check (Form V VOA)	NA	NA		
	Internal Standard	Area and RT Summary (Form VIII VOA)	. <u>NA</u>	NA		
	b. Sample Data TCL Results - Or and VOA-2)	ganics Analysis Data Sheet (Form I VOA-1	NA	NA		
	Tentatively Identi	fied Compounds (Form I VOA-TIC)				
	Reconstructed to	tal ion chromatograms (RIC) for each sample				
	For each sample	:				
	Raw Spectra a	and background-subtracted mass spectra of unds identified				
	Quantitation re	eports				\ .
	Mass Spectra c. Standards Data (All	of all reported TICs with three best library matches Instruments)	NA	NA		
	Initial Calibration	Data (Form VI VOA-1, VOA-2, VOA-3)				
	RICs and Quantit	aation Reports for all Standards				·
	Continuing Calibr	ation Data (Form VII VOA-1, VOA-2, VOA-3)				
	RICs and Quantit	ation Reports for all Standards				
d	. Raw/Quality Control		•		-	
	BFB		NA	NA	_	
	Blank Data		NA	NA	\	
	Matrix Spike/Matrix USEPA Region)	Spike Duplicate Data (if requested by	NA	NA		\underline{V}
		Evidence Audit Photo	сору			

CASE	NO: 43392	SDG NO: A4B24	SDG NOs T	O FOLLOW:	N/A		
N/A		N/A	MOD. REF.	NO : N	/A		
e.	Trace SIM Data (Pla	ace at the end of the Trace \	Volatiles Section	NA	NA		レ
.	[Form I VOA-SIN IV-VOA-SIM; For	f; Form II VOA-SIM1 and VC rm VI VOA-SIM; Form VII VC nd all raw data for QC, Samp	DA-SIM2; Form DA-SIM; Form				
Lov	v/Med Volatiles Data				,		
a.	QC Summary						
	Deuterated Moni VOA-2, VOA-3, \	toring Compound Recovery	(Form II VOA-1,	NA	<u>NA</u>		
	· ·	rix Spike Duplicate Recover equested by USEPA Region)		NA	NA		
	Method Blank Su	ımmary (Form IV VOA)		NA:	NA		
	GC/MS Instrume	nt Performance Check (Forr	n V VOA)	NA	NA		
	Internal Standard	d Area and RT Summary (Fo	orm VIII VOA)	NA	NA		
b.	Sample Data			NA	NA	<u>.</u>	
	TCL Results - Or VOA-1 and VOA	rganics Analysis Data Sheet -2)	(Form I				
	Tentatively Identi	ified Compounds (Form I VC	DA-TIC)				
	Reconstructed to	otal ion chromatograms (RIC) for each sample				Marganian (marcon finalis)
		e: a and background-subtracte ounds identified	d mass spectra of				
	Quantitation	reports					* 1
	Mass Spect matches	ra of all reported TICs with the	hree best library				
c.	Standards Data (Al	ll Instruments		NA	NA	- .	
	Initial Calibration	n Data (Form VI VOA-1, VOA	A-2, VOA-3)				
	RICs and Quant	itation Reports for all Standa	ards			**************************************	ev .
	Continuing Calib	oration Data (Form VII VOA-	1, VOA-2, VOA-3)				
	RICs and Quant	itation Reports for all Standa	ards				
d.	Raw/Quality Contr	ol (QC)Data					NAME OF TAXABLE PARTY O
	BFB			NA .	NA		
	Blank Data			NA	NA		7
	Matrix Spike/Ma USEPA Region)	trix Spike Duplicate Data (if	requested by	NA	NA		$\sqrt{}$

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HRS Reference #72

CASE NO:	43392	SDG NO:	A4B24	SDG NOs TO FOLL	: WC	N/A	
N/A		N/A		MOD. REF. NO:	N/A		

6. <u>Semivolatiles Data</u>

a.	QC Summary				
	Deuterated Monitoring Compound Recovery (Form II SV-1, SV-2, SV-3, SV-4)	NA	NA		4
	Matrix Spike/Matrix Spike Duplicate Recovery Summary (Form III SV-1 and SV-2) (if requested by USEPA Region)	NA	NA		
	Method Blank Summary (Form IV SV)	NA	NA		
	GC/MS Instrument Performance Check (Form V SV)	NA	NA		
	Internal Standard Area and RT Summary (Form VIII SV-1 and SV-2)	<u>NA</u>	NA		
b.	Sample Data	<u>NA</u>	NA	• • • • • • • • • • • • • • • • • • •	
	TCL Results - Organics Analysis Data Sheet (Form I SV-1 and SV-2)				
	Tentatively Identified Compounds (Form I SV-TIC)		•		
	Reconstructed total ion chromatograms (RIC) for each sample				
	For each sample:	NA	NA	-	
	Raw Spectra and background-subtracted mass spectra of target compounds				
	Quantitation reports		•	· · · · · · · · · · · · · · · · · · ·	
	Mass Spectra of TICs with three best library matches				
	GPC chromatograms (if GPC is r				
c.	Standards Data (All Instruments)	NA	NA	. \	1
	Initial Calibration Data (Form VI SV-1, SV-2, SV-3)				<u>.</u>
	RICs and Quantitation				
	Continuing Calibration Data (Form VII SV-1, S				
	RICs and Quantitation Reports for all Standards				
d.	Raw (QC)Data				
	DFTPP	NA	NA		
	Blank Data	NA	NA		,
	MS/MSD Data (if requested by USEPA Region)	NA	NA		
e.	Raw GPC Data	NA	NA		

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CA	ASE NO: 43392 SDG NO: A4B2	24 SDG NC	s TO FOLLO	W: N/A		
1	N/A N/A	MOD. RI	EF. NO :	N/A		
	Semivolatile SIM Data		NA	NA		
	[Form I SV-SIM; Form II SV-SIM1 and SV-SIII-SV-SIM1 and SV-SIM2 (if required; Form Form VI SV-SIM; Form VI SV-SIM; Form V SV-SIM2; and all raw data for QC, Samples	n IV SV-SIM; /III SV-SIM1 and				
<u>Pe</u>	esticides Data					
a.	QC Summary					
	Surrogate Recovery Summary (Form II PEST-	1 and PEST-2)	NA	NA		
	Matrix Spike/Matrix Spike Duplicate Recovery (Form III PEST-1 and PEST-2)	Summary	<u>NA</u>	NA		Owner, or other parties of the parti
	Laboratory Control Sample Recovery (Form III PEST-4)	PEST-3 and	<u>NA</u>	NA		
	Method Blank Summary (Form IV PEST)		NA	NA		
b. S	Sample Data		NA	NA	_	A PARTY OF THE PAR
	TCL Results - Organics Analysis Data Sheet (Form I PEST)				
	Chromatograms (Primary Column)				#_4************************************	
	Chromatograms from second GC column conf	irmation			-	
	GC Integration report or data system printout				Magazin promotions Course on part of the Course of the Cou	
	Manual work sheets					
	For Pesticides by GC/MS				Mark and a second second second second second second second	
	Copies of raw spectra and copies of backgr spectra of target compounds (samples & st				North Control of the	
c. S	Standards Data		NA	NA .		and the contract of the contra
	Initial Calibration of Single Component Analyte	es (Form VI PEST-1 an	d PEST-2)		-	
	Toxaphene Initial Calibration (Form VI PEST-3	3 and PEST-4)				
	Analyte Resolution Summary (Form VI PEST-	5, per column)				:
	Performance Evaluation Mixture (Form VI PES	ST-6)				
	Individual Standard Mixture A (Form VI PEST-	7)		· ·		
	Individual Standard Mixture B (Form VI PEST	-8)				
	Individual Standard Mixture C (Form VI PEST	-9 and PEST-10)				
	Calibration Verification Summary (Form VII PE	EST-1)				
	Calibration Varification Summary (Form VII DE	ECT O				7

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CA	SE NO: 43392 SDG NO: A4B24	SDG NOs TO FOLLO	W: N/A	
N	I/A N/A	MOD. REF. NO :	N/A	
	Calibration Verification Summary (Form VII PEST-3)		***************************************	M
	Calibration Verification Summary (Form VII PEST-4)			
	Analytical Sequence (Form VIII PEST)			
	Florisil Cartridge Check (Form IX PEST-1)			
	Pesticide GPC Calibration (Form IX PEST-2)			
	Identification Summary for Single Component Analytes	s (Form X PEST-1)		
	Identification Summary for Toxaphene Form X PEST-2	2)		
	Chromatograms and data system printouts			
	A printout of Retention Times and corresponding	peak areas or peak heights	•	
d.	Raw QC Data			
	Blank Data	<u>NA</u>	<u>NA</u>	
	Matrix Spike/Matrix Spike Duplicate Data	<u>NA</u>	NA	 ·
	Laboratory Control Sample	NA	<u>NA</u>	
e.	Raw GPC Data	<u>NA</u>	NA	 1
f. ,	Raw Florisil Data	NA	<u>NA</u>	 <u>\\</u>
Arc	oclor Data			7
a.	QC Summary			5
	Surrogate Recovery Summary (Form II ARO-1 and	ARO-2) <u>12</u>	13	 1
	Matrix Spike/Matrix Spike Duplicate Summary (For and ARO-2)	m III ARO-1	17	
	Laboratory Control Sample Recovery (Form III ARC ARO-4)	0-3 and 18	19	1
	Method Blank Summary (Form IV ARO)	20	21	
b.	Sample Data	22	146	7
	TCL Results - Organics Analysis Data Sheet (Form	I ARO) NA	NA	(
	Chromatograms (Primary Column)	NA	NA	
	Chromatograms from second GC column confirmat	ion NA	NA	
٠.	GC Integration report of data system printout	NA	NA	
	Manual work sheets	NA	NA	V
	For Aroclors by GC/MS	NA	NA	 11/

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Aroclors Initial Calibration (Form VI ARO-1,ARO-2, and ARO-3) Calibration Verification Summary (Form VII ARO-1) Analytical Sequence (Form VIII ARO) Identification Summary for Multicomponent Analytes (Form X ARO) Chromatograms and data system printouts A printout of Retention Times and corresponding peak areas or peak heights Raw QC Data Blank Data Blank Data Laboratory Control Sample (LCS) Data Raw GPC Data (if performed) Miscellaneous Data Original preparation and analysis forms or copies of preparation and analysis logbook pages Internal sample and sample extract transfer chain-of-custody records Screening records All instrument output, including strip charts from screening activities (describe or list)	CASE NO: 43392	SDG NO: A4B24	SDG NOs	TO FOLLOV	V: N/A		
background-subtracted mass spectra of target compounds (samples & standards) Standards Data Aroclors Initial Calibration (Form VI ARO-1, ARO-2, and ARO-3) Calibration Verification Summary (Form VII ARO-1) Analytical Sequence (Form VIII ARO) Identification Summary for Multicomponent Analytes (Form X ARO) Chromatograms and data system printouts A printout of Retention Times and corresponding peak areas or peak heights Raw QC Data Blank Data Blank Data Matrix Spike/Matrix Spike Duplicate Data Laboratory Control Sample (LCS) Data Raw GPC Data (if performed) Miscellaneous Data Original preparation and analysis forms or copies of preparation and analysis logbook pages Internal sample and sample extract transfer chain-of-custody records Screening records All instrument output, including strip charts from screening activities (describe or list) EPA Shipping/Receiving Documents Airbills (No. of shipments4) Chain of Custody Records Sample Tags Sample Log-in Sheet (Lab & DC-1) 487 493	N/A	N/A	MOD. REF	. NO :	N/A	TT TO DAY 1, WHAT TO DAY 1, WAS TO SHEET TO SHEET THE SHEET TO SHEET THE SHE	
Aroclors Initial Calibration (Form VI ARO-1, ARO-2, and ARO-3) Calibration Verification Summary (Form VII ARO-1) Analytical Sequence (Form VIII ARO) Identification Summary for Multicomponent Analytes (Form X ARO) Chromatograms and data system printouts A printout of Retention Times and corresponding peak areas or peak heights Raw QC Data Blank Data Blank Data Blank Data Matrix Spike/Matrix Spike Duplicate Data Laboratory Control Sample (LCS) Data Blank OP Data (if performed) NA NA Miscellaneous Data Original preparation and analysis forms or copies of preparation and analysis logbook pages Internal sample and sample extract transfer chain-of-custody records Screening records All instrument output, including strip charts from screening activities (describe or list) EPA Shipping/Receiving Documents Airbills (No. of shipments 4 4 484 484 485 486 5 486 5 487 503 5 503 5 503 5 503 5 500 5	background-sub	racted mass spectra of target			and the second s		
Calibration Verification Summary (Form VII ARO-1) Analytical Sequence (Form VIII ARO) Identification Summary for Multicomponent Analytes (Form X ARO) Chromatograms and data system printouts A printout of Retention Times and corresponding peak areas or peak heights Raw QC Data Blank Data Blank Data Blank Data Additive Spike/Matrix Spike Duplicate Data Laboratory Control Sample (LCS) Data Blank GPC Data (if performed) NA NA Miscellaneous Data Original preparation and analysis forms or copies of preparation and analysis logbook pages Internal sample and sample extract transfer chain-of-custody records Screening records Screening records All instrument output, including strip charts from screening activities (describe or list) EPA Shipping/Receiving Documents Airbills (No. of shipments 4 1 484 485 486 586) Sample Tags Sample Log-in Sheet (Lab & DC-1) Analysia (Form X ARO) All instrument output, and data system printouts All instrument output, and analysis forms or copies of preparation and analysis logbook pages BEPA Shipping/Receiving Documents Airbills (No. of shipments 4 1 503 486 586 586) Sample Tags Sample Log-in Sheet (Lab & DC-1)	. Standards Data			147	318		
Analytical Sequence (Form VIII ARO) Identification Summary for Multicomponent Analytes (Form X ARO) Chromatograms and data system printouts A printout of Retention Times and corresponding peak areas or peak heights Raw QC Data Blank Data Blank Data Blank Data Adatrix Spike/Matrix Spike Duplicate Data Laboratory Control Sample (LCS) Data Raw GPC Data (if performed) Miscellaneous Data Original preparation and analysis forms or copies of preparation and analysis logbook pages Internal sample and sample extract transfer chain-of-custody records Screening records All instrument output, including strip charts from screening activities (describe or list) EPA Shipping/Receiving Documents Airbills (No. of shipments 4 185 486 186 187) Chain of Custody Records Sample Log-in Sheet (Lab & DC-1) Sample Log-in Sheet (Lab & DC-1)	Aroclors Initial Calibra	ation (Form VI ARO-1,ARO-2, a	nd ARO-3)				
Identification Summary for Multicomponent Analytes (Form X ARO) Chromatograms and data system printouts A printout of Retention Times and corresponding peak areas or peak heights Raw QC Data Blank Data Matrix Spike Matrix Spike Duplicate Data Laboratory Control Sample (LCS) Data Raw GPC Data (if performed) Miscellaneous Data Original preparation and analysis forms or copies of preparation and analysis logbook pages Internal sample and sample extract transfer chain-of-custody records Screening records All instrument output, including strip charts from screening activities (describe or list) EPA Shipping/Receiving Documents Airbills (No. of shipments 4 484 484 486 5 486 5 5 3 5 3 5 3 5 3 5 3 5 3 5 3 5 3 5 3	Calibration Verification	n Summary (Form VII ARO-1)					-
Chromatograms and data system printouts A printout of Retention Times and corresponding peak areas or peak heights Raw QC Data Blank Data Blank Data Matrix Spike Matrix Spike Duplicate Data Laboratory Control Sample (LCS) Data Raw GPC Data (if performed) Miscellaneous Data Original preparation and analysis forms or copies of preparation and analysis logbook pages Internal sample and sample extract transfer chain-of-custody records Screening records All instrument output, including strip charts from screening activities (describe or list) EPA Shipping/Receiving Documents Airbills (No. of shipments 4 485 486 Sample Tags Sample Log-in Sheet (Lab & DC-1) 487 493	Analytical Sequence	(Form VIII ARO)			•		
A printout of Retention Times and corresponding peak areas or peak heights Raw QC Data Blank Data Blank Data Matrix Spike/Matrix Spike Duplicate Data Laboratory Control Sample (LCS) Data Raw GPC Data (if performed) Miscellaneous Data Original preparation and analysis forms or copies of preparation and analysis logbook pages Internal sample and sample extract transfer chain-of-custody records Screening records All instrument output, including strip charts from screening activities (describe or list) EPA Shipping/Receiving Documents Airbills (No. of shipments 4 484 486 486 58ample Tags 58ample Log-in Sheet (Lab & DC-1) 487 493	Identification Summa	ry for Multicomponent Analytes	(Form X ARO)				
or peak heights Raw QC Data Blank Data Matrix Spike/Matrix Spike Duplicate Data Laboratory Control Sample (LCS) Data Raw GPC Data (if performed) Miscellaneous Data Original preparation and analysis forms or copies of preparation and analysis logbook pages Internal sample and sample extract transfer chain-of-custody records Screening records All instrument output, including strip charts from screening activities (describe or list) EPA Shipping/Receiving Documents Airbills (No. of shipments 4	Chromatograms and	data system printouts				7	-
Blank Data 319 368 L Matrix Spike/Matrix Spike Duplicate Data 369 390 Laboratory Control Sample (LCS) Data 391 402 Raw GPC Data (if performed) NA NA NA Miscellaneous Data Original preparation and analysis forms or copies of preparation and analysis logbook pages 403 480 Internal sample and sample extract transfer chain-of-custody records 494 495 Screening records NA NA NA All instrument output, including strip charts from screening activities (describe or list) EPA Shipping/Receiving Documents 481 484 Chain of Custody Records 485 486 Sample Tags 497 503 Sample Log-in Sheet (Lab & DC-1) 487 493			ng peak areas		•		
Matrix Spike/Matrix Spike Duplicate Data 369 390 Laboratory Control Sample (LCS) Data 391 402 Raw GPC Data (if performed) NA NA NA Miscellaneous Data Original preparation and analysis forms or copies of preparation and analysis logbook pages 403 480 Internal sample and sample extract transfer chain-of-custody records 494 495 Screening records NA NA NA All instrument output, including strip charts from screening activities (describe or list) 481 484 EPA Shipping/Receiving Documents Airbills (No. of shipments4) 485 486 Chain of Custody Records 485 486 Sample Tags 497 503 Sample Log-in Sheet (Lab & DC-1) 487 493	. Raw QC Data						
Laboratory Control Sample (LCS) Data Raw GPC Data (if performed) Miscellaneous Data Original preparation and analysis forms or copies of preparation and analysis logbook pages Internal sample and sample extract transfer chain-of-custody records Screening records All instrument output, including strip charts from screening activities (describe or list) EPA Shipping/Receiving Documents Airbills (No. of shipments 4) Chain of Custody Records Sample Tags Sample Log-in Sheet (Lab & DC-1) All 194	Blank Data			319	368		L
Miscellaneous Data Original preparation and analysis forms or copies of preparation and analysis logbook pages Internal sample and sample extract transfer chain-of-custody records Screening records All instrument output, including strip charts from screening activities (describe or list) EPA Shipping/Receiving Documents Airbills (No. of shipments 4 481 484 486 Sample Tags Sample Log-in Sheet (Lab & DC-1) NA NA 403 480 480 495 A94 495 A95 A95 A97 503 A97 503 A97 503 A97 503 A97 503	Matrix Spike/Matrix S	pike Duplicate Data		369	390		
Miscellaneous Data Original preparation and analysis forms or copies of preparation and analysis logbook pages Internal sample and sample extract transfer chain-of-custody records Screening records All instrument output, including strip charts from screening activities (describe or list) EPA Shipping/Receiving Documents Airbills (No. of shipments 4 485 486 568 568 568 568 568 568 568 568 568 5	Laboratory Control S	ample (LCS) Data		391	402		
Miscellaneous Data Original preparation and analysis forms or copies of preparation and analysis logbook pages Internal sample and sample extract transfer chain-of-custody records Screening records All instrument output, including strip charts from screening activities (describe or list) EPA Shipping/Receiving Documents Airbills (No. of shipments 4 484 485 486 58486 58486 58486 58487 493 503 487 493 503 487 493	. Raw GPC Data (if perfo	rmed)		NA	NA		
Original preparation and analysis forms or copies of preparation and analysis logbook pages Internal sample and sample extract transfer chain-of-custody records Screening records All instrument output, including strip charts from screening activities (describe or list) EPA Shipping/Receiving Documents Airbills (No. of shipments4) Chain of Custody Records Sample Tags Sample Log-in Sheet (Lab & DC-1) 483 480 494 495 495 497 486 487 487 493	Miscellaneous Data						
and analysis logbook pages Internal sample and sample extract transfer chain-of-custody records Screening records All instrument output, including strip charts from screening activities (describe or list) EPA Shipping/Receiving Documents Airbills (No. of shipments4) Chain of Custody Records Sample Tags Sample Log-in Sheet (Lab & DC-1) A94 495 NA NA NA A85 486 486 487 493		d analysis forms or conics of pr	ongration		•		
records Screening records All instrument output, including strip charts from screening activities (describe or list) EPA Shipping/Receiving Documents Airbills (No. of shipments4) Chain of Custody Records Sample Tags Sample Log-in Sheet (Lab & DC-1) NA NA NA 485 486 487 493			eparation	403	480		
All instrument output, including strip charts from screening activities (describe or list) EPA Shipping/Receiving Documents Airbills (No. of shipments4) Chain of Custody Records Sample Tags Sample Log-in Sheet (Lab & DC-1) All instrument output, including strip charts from screening activities (describe or list) 481 484 486 497 503 497 493		mple extract transfer chain-of-co	ustody	494	495		
activities (describe or list) EPA Shipping/Receiving Documents Airbills (No. of shipments4) Chain of Custody Records Sample Tags Sample Log-in Sheet (Lab & DC-1) 487 484 484 485 486	Screening records			NA	NA		
Airbills (No. of shipments 4) 481 484 Chain of Custody Records 485 486 Sample Tags 497 503 Sample Log-in Sheet (Lab & DC-1) 487 493			ning			,	
Airbills (No. of shipments4) 481 484 Chain of Custody Records 485 486 Sample Tags 497 503 Sample Log-in Sheet (Lab & DC-1) 487 493							
Airbills (No. of shipments 4) 481 484 Chain of Custody Records 485 486 Sample Tags 497 503 Sample Log-in Sheet (Lab & DC-1) 487 493							
Airbills (No. of shipments4) 481 484 Chain of Custody Records 485 486 Sample Tags 497 503 Sample Log-in Sheet (Lab & DC-1) 487 493	EPA Shinning/Receiving F	locuments					-
Chain of Custody Records 485 486 Sample Tags 497 503 Sample Log-in Sheet (Lab & DC-1) 487 493				481	484		
Sample Tags 497 503 Sample Log-in Sheet (Lab & DC-1) 487 493				195	100		-
Sample Log-in Sheet (Lab & DC-1) 497 503 487 493				400	400		
	· ·	Lah & DC 1)					
NUISCOURDOUS SNINNING/POCCIVING POCCES (GOCCENO OF IC*)			!! - !\	48/	493		

Evidence Audit Photocopy

HRS Reference #72

CASE NO: 43392	SDG NO: A4B24	SDG NOs TO	FOLLOW:	N/A		
N/A	N/A	MOD. REF. N	10: <u>N</u>	I/A		
1. Internal Lab Sam	ple Transfer Records and Tracki	ng Sheets (describe or li	ist)			
Sample Tr	ansfer		494	495		
2. Other Records (d	escribe or list)					
Telephone Co	ommunication Log		NA	NA		
PE I	nstructions		496	497		
				Total Control of the		
3. Comments						
	0.00		Λ 4	3	1.	-lali-
Completed by: L	(Signature)		inted Nar	· Luos	$\frac{5}{2}$	5/8/13 (Date)
	- Herainnah		anshu	Premior	n. K	05/08/13
/erified by: (CLP Lab)	(Sighature)		inted Nar		-	(Date)
Audited by:	Univ 2		Mahany	1 Proh. Prot	1 scientist	5/30/1
(USEPA)	(Signature)	(Pi	rinted Nar	me/Title)		(Date)

Evidence Audit Photocopy



COPY

EPA NEW ENGLAND COMPLETE SDG FILE RECEIPT / TRANSFER FORM

Site: Jard Company Inc TOD: 12-10-0008 TASIK: 0850

Case: 43392 SDG: A4B24

Receipt Date	Received By : Name	Init.	Affiliation	CSF Activity	Custody Seals Present / Intact	Released To Date
05/09/13	Doris Guzman	25	ESAT	Received for Transfer	(Y)N (Y)N	Weston 05/09/13
5/9/13	B. Mahany	FAM	Weston	Sterge + Validation	ON ON	
	7		·		YN YN	
			·		YN YN	
4					YN YN	
					YN YN	
					YN YN	
					YN YN	500,30
					YN YN	
		-			YN YN	
D D D					YN YN	
Page 54					YN YN	

EPA-NE - DQO SUMMARY FORM

A separate Form should be completed for each sampling event. Refer to Attachment A for instructions on completing this form, Attachment B for a complete list of the parameter codes and Attachment C for an example of a completed form.

•	EPA Program: TSCA CERCLA RCRA Other:		1	Site Name_Ja Site Location	Bennington.	Vermont			
	Projected Date(s) of Sampling <u>Sprins</u> EPA Site Manager <u>Martha Bosworth</u>	g (April/May)		CERCLA Site	e/Spill Identif SA/SI pre-R	ngitude_42° 53 ier No <u>VTD048</u> I RI (phase I, assessment_	3141741 (Incl	ude Operable 1	Unit)
•	QAPP Title and Revision Date <u>Site Asset</u> <u>Water, and Sediment Sampling Jard C</u> Approved by: <u>Martha Bosworth</u> Title of Approving Official: <u>Site Asset</u>	company Inc, I	Bennington, \Date oger	f Approval:]	T January 20 TBD _Organizatio	n*:_EPA_			· · ·
	*If other than EPA, record date appro-	val authority v	\sim						
	EPA Oversight Project (circle one) Confirmatory Analysis for Field Scree Are comparability criteria documente	eningY d? Y	I N I N N	Type of EPA Ov f EPA Oversigh	versight (circl at or Confirm	e one) PRP or atory: % splits	FF Other: TBD		
. a.	Matrix Code ¹	SO	SO	SO	GW	GW	SD	SD	· SD
b.	Parameter Code ²	PCB Aroclors	PCB Aroclors	PCB Congeners	PCB Aroclors	PCB Congeners	PCB Aroclors	PCB Aroclors	PCB Congener
c.	Preservation Code ³	. 5	5	5	5	5	5	5	5
d.	Analytical Services Mechanism	DAS or CLP	DAS or CLP	CLP	DAS or CLP	DAS or CLP	DAS or CLP	DAS or CLP	CLP
e.	No. of Sample Locations	65	28	2	21	2	60	60	60
	Field QC:	an-							
f.	Field Duplicate Pairs	4	2		2	5	. 5	5	5
g.	Equipment Blanks	See RB	See RB	See RB	See RB	See RB	See RB	See RB	See RB
h.	VOA Trip Blanks	0	0	0	0	0	0	0	0
i.	Cooler Temperature Blanks	1 per cooler	l per cooler	l per cooler	1 per cooler	l per cooler	1 per cooler	1 per cooler	l per cooler
j.	Bottle Blanks	0	. 0	0	0	0	0	0	0
k.	Other:				·				
I.	PES sent to Laboratory	NA	6	TBD	3	TBD	'NA	3	ŤBD
	Laboratory QC:						- 4	W. 1	
m.	Reagent Blank	0	0	0	0	0	0	0	0
n.	Duplicate	·. 0	0	0	0	0	0	0	. 0
0.	Matrix Spike	0	2	0	1	0	1	0	0
р.	Matrix Spike Duplicate	0	2	0	1	0	1	0	0
q.	Other:		·						
4.	Site Information Site Dimensions <u>Approximately 11.</u> List all potentially contaminated ma	trices Surface	and subsurfa	ce soil, sedime	nt, ground wa	ter, and resider	ntial surface s	oil	-
	Range of Depth to Groundwater Soil Types: Surface Subsurface	reater than 5 f	eet .		•			-	
	Soil Types: Surface Substitute C Sediment Types: Stream Pond Es	stuary Wetlan	nd Other:		Expec	ted Soil/Sedime	ent Moisture (Content: Hig	h Lo

1.	EPA Program: TSCA CERCLA RCRA Other: Projected Date(s) of Sampling Sprin EPA Site Manager Martha Bosworth EPA Case Team Members	g (April/May)		Site Name Jarc Site Location 1 Assigned Site I CERCLA Site/ Phase: ERA S (circle one) Ott	Bennington, Latitude/Lon Spill Identifi A/SI pre-RJ	Vermont gitude_42° 5 ler NoVTD04 [RI (phase l	8141741 (Inc	lude Operable	Unit)
2.	Title of Approving Official: Site Asse *If other than EPA, record date appro EPA Oversight Project (circle one) Confirmatory Analysis for Field Scree	essment Mana val authority v	Bennington, V Date of ger vas delegated: N If	ermont dated 11 f Approval: <u>TE</u>	January 20 BD Organization	13 n*:_EPA_ e one) PRP o	r FF Other:		
	Are comparability criteria documente		N	I I					
3. a. b.	Matrix Code ¹ Parameter Code ²	PCB Aroclors	SS PCB Aroclors	SS PCB Congeners	RB PCB Aroclors				
c.	Preservation Code ³	Atociois 5	Atociois 5.	Congeners 5	5				
d.	Analytical Services Mechanism	DAS or CLP	DAS or CLP	CLP	CLP Non- RAS	7			
e.	No. of Sample Locations	125	38	2	21				
f.	Field QC: Field Duplicate Pairs	7	2		0				
g.	Equipment Blanks	See RB	See RB	See RB	0				
h.	VOA Trip Blanks	0	0.	0	0				
i.	Cooler Temperature Blanks	l per cooler	l per cooler	1 per cooler	l per cooler				
j.	Bottle Blanks	0	0	0	0		. 4		
k.	Other:							. 4	
1.	PES sent to Laboratory	NA	6	TBD	0				
	Laboratory QC:	, . .							
m.	Reagent Blank	* 0	0	0	0				
n.	Duplicate	0	0	0	0 ·	1		1 25 - 2 - 2 - 2 - 2	
0.	Matrix Spike	0	2	0	0	<u> </u>			
p.	Matrix Spike Duplicate	0	2	0				1	
q.	Other:			-					
4.	Site Information Site Dimensions Approximately 11. List all potentially contaminated ma Range of Doth to Groundwater Soil Types: Surface Subsurface (Sediment Types: Stream Pond Es	trices <u>Surface</u> eater than 5 fe other:	e <u>et</u>	e soil, sediment,			ntial surface s		Low

When mi	ultiple matrices will be sampled during a sam	pling event, complete Sections 5-10 for	each matrix.	N	Matrix Code ¹ <u>SO</u>
5. Data	Engineering D	Assessment PRP Determination tent of Contamination Human and/or I esign Remedial Action Action (quarterly monitoring)	n	essment I	Other:
			Draft DQO Summ	nary Form	1 1 1/96
6.	property. A subset of samples will be su	absurface soil/source samples from the id B Aroclors field screening and fixed base abmitted for fixed laboratory analysis wit	ed laboratory analysi	s in sourc	e areas on the Jard Company Inc
	_ 5-mp 11 14 wp pas-work		And the second		
	COCs	Action Levels		Analy	ytical Method-Quantitation Limits
PCB Arc	oclors (Field Screening)	Above Background (Assumed to be N	D) 0.2	2 mg/Kg	
PCB Arc	oclors (Fixed Lab)	Above Background (Assumed to be N	D) 33	ug/kg	
PCB Co	ngerners	Above Background (Assumed to be N	D) 20) to 100 n	g/Kg
7.	Sampling Method (circle technique) Sampling Procedures (SOP name, No., List Background Sample Locations No. Circle Grab or Composite Technique) "Hot spots" sampled:	Split Spoon Dredge Trov Rev. #, and date) A for source samples	et or Spigot	$\overline{}$	Peristaltic Pump Other: rect sampling
		No	1 10 =		
8.	Field Data (circle) ORP pH Other:	Specific Conductance Diss		emperatur	e Turbidity
9.	Analytical Methods and Parameters				
	Method title/SOP name	Method/SOP Identification number	Revision Da	ite	Target Parameters (VOA, SV, Pest/PCB, Metals, etc.)
	PCB Aroclors (Field Screening)	EIA-FLDPCB2.SOP			PCBs
-	PCB Aroclors	SOM01.2 or DAS Equivalent			PCBs
	PCB Congeners	CBC01.0		1	PCB Congeners
10.	Validation Tier (circle one) I	on I, EPA-NE Data Validation Functiona r Approved Validation Criteria: II III Partial Tier III: ta Validation_Weston Solutions, Inc./ST			or Subcontractor (circle one)
11.	Company Name <u>Weston Solutions, Inc.</u> Contract Name (e.g. START, RACS, et Person Completing Form/Title <u>G. Horn</u>		umber <u>EP-W-05-04</u> gnment No. <u>20114-0</u> Summary Form Co	081-998-0	0850 11 January 2013

When mu	ultiple matrices will be sampled during a sar	mpling event, complete Sections 5-10 for	each matrix.	1	Matrix Code ^l _ <u>GW</u>
5. Data (Engineering I	ktent of Contamination Human and/or	Ecological Risk on Draft DQO S	Assessment I	Other:
6.	Summarize DQOs: <u>Collect ground water</u> fixed based laboratory analysis. A sub-	r samples from ground water monitoring set of samples will be submitted for PCB	Congener analys	installed on a	ind off the property for PCB Aroclors
	Complete Table if applicable				
	COCs	Action Levels		Anal	ytical Method-Quantitation Limits
PCB Arc	oclors (Fixed Lab)	Above Background (Assumed to be N	ND)	1.0 μg/L	
PCB Cor	•	Above Background (Assumed to be N	ND)	100 to 1,00	0 pg/L
1 1.					
7.	Sampling Method (circle technique) Sampling Procedures (SOP name, No List Background Sample Locations Circle Circle Ciral or Composite "Hot spots" sampled:	Rev. # and date)	I method: Yes icet or Spi got wel		Peristaltic Pump Other:
8.	Field Data (circle) ORP pH	Specific Conductance Dis	solved O2	Temperatu	Turhidity
	Other:		Tanya.		· · · · · · · · · · · · · · · · · · ·
9.	Analytical Methods and Parameters	10 mm			
	Method title/SOP name	Method/SOP Identification number	Revisio	on Date	Target Parameters (VOA, SV, Pest/PCB, Metals, etc.)
	PCB Aroclors	SOM01.2 or DAS Equivalent			PCBs
	PCB Congeners	CBC01.0			PCB Congeners
10.	Validation Tier (circle one) I	gion I, EPA-NE Data Validation Function ner Approved Validation Criteria: II Partial Tier III Data Validation Weston Solutions, Inc./S	[:	j41,12419	Environmental Analyses, Part II, III or IV
11.	Company Name <u>Weston Solutions, Inc</u> Contract Name (e.g. START, RACS, Person Completing Form/Title <u>G. H.</u>		Number <u>EP-W</u> signment No. <u>20</u> O Summary For	0114-081-998	-0850 n_11 January 2013

When m	nultiple matrices will be sampled during a sam	npling event, complete Sections 5-10 for	each matrix.		Matrix Code ¹ _SD
5. Data	Engineering D	/Assessment PRP Determination ktent of Contamination Human and/or E Design Remedial Action I Action (quarterly monitoring)	Ecological Risk on Draft DQO St		Other:
6.	Summarize DQOs: <u>Collect sediment sam</u> analysis. A subset of samples will be su	aples from a wetland located west of Park abmitted for fixed laboratory analysis with	Street for PCB .h a smaller subse	Aroclors fiel et submitted	ld screening and fixed based laboratory for PCB Congener analysis.
	Complete Table if applicable				
	COCs	Action Levels		Ana	ulytical Method-Quantitation Limits
PCB Ar	oclors (Field Screening)	Above Background (Assumed to be N.	(D)	0.2 mg/Kg	
PCB Ar	oclors (Fixed Lab)	Above Background (Assumed to be N	(D)	33 ug/kg	
PCB Co	ongerners	Above Background (Assumed to be N	(D)	20 to 100 r	ng/Kg
7.	Sampling Method (circle technique)	Split Spoon Dredge Trow	cet or Spigot		Peristaltic Pump & Other: irect sampling
	Sampling Procedures (SOP name, No., List Background Sample Locations_We Circle: Grab or Composite "Hot spots" sampled:	Rev. #, and date) etalnd area northeast of the Jard Company No	y Inc property		
8.	Field Data (circle) ORP pH	Specific Conductance Disso	olved O ₂	Temperatur	re Turbidity
	Other:				
9.	Analytical Methods and Parameters				
	Method title/SOP name	Method/SOP Identification number	Revision	Date	Target Parameters (VOA, SV, Pest/PCB, Metals, etc.)
	PCB Aroclors (Field Screening)	SOM01.2			PCBs
	PCB Aroclors	SOM01.2 or DAS Equivalent			PCBs
	Total Metals (including Hg)	CBC01.0			PCB Congeners
10.	Validation Tier (circle one) 2. Other	on I. EPA-NE Data Validation Functional r Approved Validation Criteria: II Partial Tier III: ta Validation Weston Solutions, Inc./STA			Environmental Analyses, Part II, III or IV Dr Subcontractor (circle one)
11.	Company Name <u>Weston Solutions, Inc.</u> Contract Name (e.g. START, RACS, etc. Person Completing Form/Title <u>G. Horn</u>		umber <u>EP-W-05</u> nment No. <u>2011</u> Summary Form	14-081-998-0	

	Post-Remed	lial Action (quarterly monitoring)			Other:
			Draft DQO S	Summary For	m 11/96
	residences for PCB Aroclors field scr	l samples from residential properties down reening and fixed based laboratory analysis aboratory analysis with a smaller subset su	in source areas	on the Jard	Company Inc property. A subset of
	Complete Table if applicable				
			· · · · · · · · · · · · · · · · · · ·	T .	
	COCs	Action Levels		1	alytical Method-Quantitation Limits
	oclors (Field Screening)	Above Background (Assumed to be N		0.2 mg/K	<u>g</u>
	oclors (Fixed Lab)	Above Background (Assumed to be N		33 ug/kg	
3 Cc	ongerners	Above Background (Assumed to be N	(U)	20 to 100	ng/Kg
	and the second s				
	Sampling Procedures (SOP name, N List Backeround Sample Locations_	Split Spoon Dredge Tro o., Rev. #, and date) Residential properties located north of the			Direct sampling
	Sampling Procedures (SOP name, N List Background Sample Locations Circle: Grab or Composite "Hot spots" sampled: Field Data (circle) ORP pH Other:	o., Rev. #, and date) Residential properties located north of the			
-	List Background Sample Locations Circle Grab or Composite "Hot spots" sampled: Field Data (circle) ORP pH	o., Rev. #, and date) Residential properties located north of the	Jard Company	Inc property_	
	List Background Sample Locations_Circle Ciral or Composite "Hot spots" sampled: Field Data (circle) ORP pH Other:	o., Rev. #, and date) Residential properties located north of the	Jard Company solved O ₂	Inc property_	
	List Background Sample Locations Circle Grab or Composite "Hot spots" sampled: Field Data (circle) ORP pH Other: Analytical Methods and Parameters	o., Rev. #, and date) Residential properties located north of the No Specific Conductance Dis Method/SOP	Jard Company solved O ₂	Inc property Temperat	Target Parameters
	List Background Sample Locations Circle Grab or Composite "Hot spots" sampled: Field Data (circle) ORP pH Other: Analytical Methods and Parameters Method title/SOP name	o., Rev. #, and date) Residential properties located north of the No Specific Conductance Dis Method/SOP Identification number	Jard Company solved O ₂	Inc property Temperat	Target Parameters (VOA, SV, Pest/PCB, Metals, etc.
-	List Background Sample Locations Circle Grab or Composite "Hot spots" sampled: Field Data (circle) ORP pH Other: Analytical Methods and Parameters Method title/SOP name PCB Aroclors (Field Screening)	O., Rev. #, and date) Residential properties located north of the No Specific Conductance Method/SOP Identification number SOM01.2	Jard Company solved O ₂	Inc property Temperat	Target Parameters (VOA, SV, Pest/PCB, Metals, etc.
	List Background Sample Locations Circle Grab or Composite "Hot spots" sampled: Field Data (circle) ORP pH Other: Analytical Methods and Parameters Method title/SOP name PCB Aroclors (Field Screening) PCB Aroclors Total Metals (including Hg) Validation Criteria (circle one) 1. Re 2. O Validation Tier (circle one) 1	O., Rev. #, and date) Residential properties located north of the No Specific Conductance Dis Method/SOP Identification number SOM01.2 SOM01.2 or DAS Equivalent CBC01.0 egion I, EPA-NE Data Validation Function ther Approved Validation Criteria: II III Partial Tier III Data Validation Weston Solutions, Inc./S	Solved O ₂ Revisi	Temperat on Date Prin	Target Parameters (VOA, SV, Pest/PCB, Metals, etc.) PCBs PCBs PCB Congeners

Freeze
Room Temperature (avoid excessive heat)
Other (Specify)
Not preserved

8. 9. 10. N.